



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 178917

TO: Stephen Kapushoc
Location: REM-3A60/2C70
Art Unit: 1634
Friday, February 17, 2006
Case Serial Number: 10/805973

From: Toby Port
Location: Biotech-Chem Library
REM-1A59
Phone: 571-272-2523

toby.port@uspto.gov

Search Notes

Examiner Kapushoc,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port
X22523

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STIC-Biotech/ChemLib

178917

From: Kapushoc, Stephen T.
Sent: Wednesday, February 08, 2006 8:42 AM
To: STIC-Biotech/ChemLib
Subject: sequence search for 10/805,973

file!
3-22-04

I would like a sequence search of the following SEQ ID NOs for application number 10/805,973

SEQ ID NOs: 1, (2), (3), 4, 5, (7), 12

mismatch

Thank you,
Steve

Stephen Kapushoc
Art Unit 1634 - USPTO
Tel: 571-272-3312
Office: REM 3A60
Mailbox: REM 2C70

Handwritten notes and diagrams:

- Diagram showing a sequence alignment with arrows and numbers 1, 2, 3, 4, 5, 7, 12.
- 1-CM-F
- 12-CM-R
- + 3 MU-F
- + 4-WT-F
- + 7 D-R
- 12 ID-mutant seq. - mismatch @ 21
- 4421040x
- 44273877
- wo2003013225
- wo357
- DS296872?
- internal mismatches
- (D-F)

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Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIS: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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1

c 92	17.4	82.9	234956	14	AC122640	AC122640 Rattus no	c 165	16.8	80.0	159914	9	AC126450	AC126450 Mus muscu
c 93	17.4	82.9	235203	14	AC112547	AC112547 Rattus no	166	16.8	80.0	160299	8	AC007911	AC007911 Homo sapi
c 94	17.4	82.9	235613	14	AC099656	AC099656 Rattus no	167	16.8	80.0	163223	5	EX072556	EX072556 Zebrafish
c 95	17.4	82.9	289112	14	AC111798	AC111798 Rattus no	c 168	16.8	80.0	164103	14	AC037484	AC037484 Homo sapi
c 96	17.4	82.9	317796	14	AC110984	AC110984 Rattus no	c 169	16.8	80.0	164114	9	AC141871	AC141871 Mus muscu
c 97	17.4	82.9	347373	14	AC094698	AC094698 Rattus no	c 170	16.8	80.0	167493	5	EX322607	EX322607 Zebrafish
c 98	17	81.0	598	10	BV230074	BV230074 S233P6303	c 171	16.8	80.0	168172	14	AC164550	AC164550 Mus muscu
c 99	17	81.0	90925	5	AC149888	AC149888 Xenopus t	c 172	16.8	80.0	168438	14	AC151019	AC151019 Callithrix
c 100	17	81.0	123004	8	AC087892	AC087892 Homo sapi	c 173	16.8	80.0	168767	8	AC099562	AC099562 Homo sapi
c 101	17	81.0	145156	8	AC010414	AC010414 Homo sapi	c 174	16.8	80.0	169234	2	AC018633	AC018633 Homo sapi
c 102	17	81.0	172300	8	AC010254	AC010254 Homo sapi	c 175	16.8	80.0	169509	8	AC007303	AC007303 Drosophila
c 103	17	81.0	175733	14	AC016121	AC016121 Homo sapi	c 176	16.8	80.0	170355	14	AC141223	AC141223 Rattus no
c 104	17	81.0	177162	14	AC068796	AC068796 Homo sapi	c 177	16.8	80.0	170577	14	AC120090	AC120090 Rattus no
c 105	17	81.0	183361	8	AC087880	AC087880 Homo sapi	c 178	16.8	80.0	170801	14	AC161515	AC161515 Mus muscu
c 106	17	81.0	190346	8	AC091939	AC091939 Homo sapi	c 179	16.8	80.0	172077	9	AC149220	AC149220 Mus muscu
c 107	17	81.0	191830	14	AC026332	AC026332 Homo sapi	c 180	16.8	80.0	173058	5	CR381635	CR381635 Zebrafish
c 108	17	81.0	254832	14	AC149723	AC149723 Bos tauru	c 181	16.8	80.0	174897	14	AC034307	AC034307 Homo sapi
c 109	16.8	80.0	518	10	BV315543	BV315543 S236P6286	c 182	16.8	80.0	180396	8	AL445683	AL445683 Human DNA
c 110	16.8	80.0	549	10	BV384969	BV384969 S244P6324	c 183	16.8	80.0	180728	14	AC164220	AC164220 Bos tauru
c 111	16.8	80.0	674	10	BV319763	BV319763 S236P6183	c 184	16.8	80.0	181811	14	AC154907	AC154907 Mus muscu
c 112	16.8	80.0	687	15	AF608185	AF608185 Pellia ep	c 185	16.8	80.0	182673	9	AC130828	AC130828 Mus muscu
c 113	16.8	80.0	738	15	AF217210	AF217210 Pellia ep	c 186	16.8	80.0	183125	8	AP002848	AP002848 Homo sapi
c 114	16.8	80.0	738	15	AF240473	AF240473 Pellia bo	c 187	16.8	80.0	184558	14	AC020570	AC020570 Homo sapi
c 115	16.8	80.0	746	10	BV638154	BV638154 S215P6164	c 188	16.8	80.0	185123	8	AC100782	AC100782 Homo sapi
c 116	16.8	80.0	786	2	AB074080	AB074080 Epistylis	c 189	16.8	80.0	187471	15	AP004232	AP004232 Oryza sat
c 117	16.8	80.0	1129	9	BC100441	BC100441 Mus muscu	c 190	16.8	80.0	187615	8	AC009709	AC009709 Homo sapi
c 118	16.8	80.0	1609	15	AF485491	AF485491 Synedrops	c 191	16.8	80.0	187738	9	AL845547	AL845547 Mouse DNA
c 119	16.8	80.0	6472	9	AF485327	AF485327 Mus muscu	c 192	16.8	80.0	189634	9	AC129604	AC129604 Mus muscu
c 120	16.8	80.0	21159	14	AC020461	AC020461 Drosophila	c 193	16.8	80.0	190195	14	AC139824	AC139824 Homo sapi
c 121	16.8	80.0	3128	2	CBT01E8	Z48809 Caenorhabdi	c 194	16.8	80.0	190553	9	AC141638	AC141638 Mus muscu
c 122	16.8	80.0	5907	8	AC068642	AC068642 Homo sapi	c 195	16.8	80.0	192641	5	EX322588	EX322588 Zebrafish
c 123	16.8	80.0	63594	5	AC144868	AC144868 Xenopus t	c 196	16.8	80.0	193547	14	AC137712	AC137712 Mus muscu
c 124	16.8	80.0	73264	8	AC079833	AC079833 Homo sapi	c 197	16.8	80.0	194601	14	AC147755	AC147755 Otollemur
c 125	16.8	80.0	73511	8	H565A6	Z92546 Human DNA s	c 198	16.8	80.0	196404	5	AL928556	AL928556 Zebrafish
c 126	16.8	80.0	82719	8	AC079858	AC079858 Homo sapi	c 199	16.8	80.0	199525	9	AC153617	AC153617 Mus muscu
c 127	16.8	80.0	86734	14	AC144956	AC144956 Xenopus t	c 200	16.8	80.0	199615	15	ATCHR17	AT161495 Arabidops
c 128	16.8	80.0	88529	14	CR788265	CR788265 Homo sapi	c 201	16.8	80.0	199656	9	AC130661	AC130661 Mus muscu
c 129	16.8	80.0	91920	15	AE016814_6	Continuation (7 of	c 202	16.8	80.0	205151	14	AC152782	AC152782 Bos tauru
c 130	16.8	80.0	92725	8	AC010350	AC010350 Homo sapi	c 203	16.8	80.0	206473	5	EX323042	EX323042 Zebrafish
c 131	16.8	80.0	96995	8	AC008149	AC008149 Homo sapi	c 204	16.8	80.0	206605	14	AC155479	AC155479 Zea mays
c 132	16.8	80.0	98913	15	AF069442	AF069442 Arabidops	c 205	16.8	80.0	206945	14	AC146022	AC146022 Pan trogl
c 133	16.8	80.0	103933	5	AC144820	AC144820 Xenopus t	c 206	16.8	80.0	210908	9	AC155843	AC155843 Mus muscu
c 134	16.8	80.0	105362	8	AC012370	AC012370 Homo sapi	c 207	16.8	80.0	213715	14	AC118879	AC118879 Rattus no
c 135	16.8	80.0	108765	14	AF216674	AF216674 Homo sapi	c 208	16.8	80.0	215121	9	AC123878	AC123878 Mus muscu
c 136	16.8	80.0	110000	1	CR543861_07	Continuation (8 of	c 209	16.8	80.0	215286	8	AC130650	AC130650 Homo sapi
c 137	16.8	80.0	110000	14	AL360016_0	AL360016 Homo sapi	c 210	16.8	80.0	215286	8	HSU91322	HSU91322 Human chrom
c 138	16.8	80.0	110000	15	AP008207_201	Continuation (202	c 211	16.8	80.0	218150	14	AC155480	AC155480 Zea mays
c 139	16.8	80.0	110000	15	AP008208_183	Continuation (184	c 212	16.8	80.0	218348	9	AC121537	AC121537 Mus muscu
c 140	16.8	80.0	119736	14	AC108098	AC108098 Homo sapi	c 213	16.8	80.0	218363	9	AC100378	AC100378 Mus muscu
c 141	16.8	80.0	122979	8	H5BK14H9	AL121936 Human DNA	c 214	16.8	80.0	220338	14	AC103496	AC103496 Rattus no
c 142	16.8	80.0	123828	8	AP000353	AP000353 Homo sapi	c 215	16.8	80.0	221622	9	AC125183	AC125183 Mus muscu
c 143	16.8	80.0	125170	8	AC133796	AC133796 Homo sapi	c 216	16.8	80.0	230705	14	AC130936	AC130936 Rattus no
c 144	16.8	80.0	127675	15	CR936945	CR936945 Medicago	c 217	16.8	80.0	234844	14	AC111734	AC111734 Rattus no
c 145	16.8	80.0	130244	8	AL590705	AL590705 Human DNA	c 218	16.8	80.0	238575	14	AC130761	AC130761 Rattus no
c 146	16.8	80.0	132329	14	AC161034	AC161034 Medicago	c 219	16.8	80.0	239106	14	AC156078	AC156078 Bos tauru
c 147	16.8	80.0	133668	8	AC113352	AC113352 Homo sapi	c 220	16.8	80.0	239579	14	AC095597	AC095597 Rattus no
c 148	16.8	80.0	134457	14	AC149239	AC149239 Muntiacus	c 221	16.8	80.0	242449	9	AC102618	AC102618 Mus muscu
c 149	16.8	80.0	139214	8	HS1128N12	AL109837 Human DNA	c 222	16.8	80.0	242567	14	AC159801	AC159801 Bos tauru
c 150	16.8	80.0	143029	9	AC129012	AC129012 Mus muscu	c 223	16.8	80.0	245156	14	AC084021	AC084021 Mus muscu
c 151	16.8	80.0	144698	14	AC102492	AC102492 Mus muscu	c 224	16.8	80.0	247169	14	AC123007	AC123007 Rattus no
c 152	16.8	80.0	145383	14	AC154956	AC154956 Bos tauru	c 225	16.8	80.0	247659	14	AC095548	AC095548 Rattus no
c 153	16.8	80.0	146099	14	AC121625	AC121625 Rattus no	c 226	16.8	80.0	248505	14	AC103085	AC103085 Rattus no
c 154	16.8	80.0	147480	8	AC091639	AC091639 Homo sapi	c 227	16.8	80.0	250467	14	AC094737	AC094737 Rattus no
c 155	16.8	80.0	152843	8	AC025828	AC025828 Homo sapi	c 228	16.8	80.0	256391	14	AC133269	AC133269 Rattus no
c 156	16.8	80.0	153093	9	AC121939	AC121939 Mus muscu	c 229	16.8	80.0	259383	2	AE003836	AE003836 Drosophila
c 157	16.8	80.0	153252	15	AP004861	AP004861 Oryza sat	c 230	16.8	80.0	260563	14	AC096606	AC096606 Rattus no
c 158	16.8	80.0	153921	14	AC163101	AC163101 Mus muscu	c 231	16.8	80.0	265770	9	AC155933	AC155933 Mus muscu
c 159	16.8	80.0	154959	8	AC004925	AC004925 Homo sapi	c 232	16.8	80.0	291806	14	AC148122	AC148122 Otollemur
c 160	16.8	80.0	155269	14	AF191252	AF191252 Homo sapi	c 233	16.4	78.1	400	6	CQ712840	CQ712840 Sequence
c 161	16.8	80.0	155366	8	AC104561	AC104561 Homo sapi	c 234	16.4	78.1	507	6	CQ433856	CQ433856 Sequence
c 162	16.8	80.0	155528	14	AC155983	AC155983 Xenopus t	c 235	16.4	78.1	823	5	CR407047	CR407047 Gallus ga
c 163	16.8	80.0	157383	5	AC146867	AC146867 Xenopus t	c 236	16.4	78.1	1289	5	EX933068	EX933068 Gallus ga
c 164	16.8	80.0	159921	8	AC024329	AC024329 Homo sapi	c 237	16.4	78.1	2409	5	CR354328	CR354328 Gallus ga

238	16.4	78.1	5984	8	AJ849445	AJ849445 Homo sapi	311	16.4	78.1	252348	14	AC094064	AC094064 Rattus no
239	16.4	78.1	7088	9	MMU489247	AJ489247 Mus muscu	312	16.4	78.1	252521	14	AC095166	AC095166 Rattus no
240	16.4	78.1	40611	14	AC023791	AC023791 Homo sapi	313	16.4	78.1	254690	14	AC095179	AC095179 Rattus no
241	16.4	78.1	63986	14	AC165631	AC165631 Bos tauru	314	16.4	78.1	258549	14	AC133113	AC133113 Rattus no
242	16.4	78.1	68997	14	AC090375	AC090375 Homo sapi	315	16.4	78.1	259318	14	AC103151	AC103151 Rattus no
243	16.4	78.1	78483	8	AC098651	AC098651 Homo sapi	316	16.4	78.1	268726	14	AC153919	AC153919 Mus muscu
244	16.4	78.1	83874	14	AC127191_5	Continuation (6 of	317	16.4	78.1	278103	14	AC115418	AC115418 Rattus no
245	16.4	78.1	86324	15	ATAC010870	Continuation (6 of	318	16.4	78.1	278652	14	AC073809	AC073809 Mus muscu
246	16.4	78.1	96233	14	AP003701	AP003701 Oryza sat	319	16.4	78.1	278886	14	AC099372	AC099372 Rattus no
247	16.4	78.1	107430	8	AC006988	AC006988 Homo sapi	320	16.4	78.1	282822	14	AC095679	AC095679 Rattus no
248	16.4	78.1	110000	1	AP006627_37	Continuation (38 o	321	16.4	78.1	285949	14	EX855603	EX855603 Homo sapi
249	16.4	78.1	110000	14	AC195600_0	AC195600 Mus muscu	322	16.2	77.1	427	10	BV036659	BV036659 S212P6420
250	16.4	78.1	110000	15	AP008208_295	Continuation (296	323	16.2	77.1	486	10	BV036659	G76139 S208P6152RE
251	16.4	78.1	110000	15	AP008213_092	Continuation (93 o	324	16.2	77.1	486	10	G76139	G76139 S208P6152RE
252	16.4	78.1	110000	15	AP008213_221	Continuation (222	325	16.2	77.1	574	6	BV046203	BV046203 S209P6223
253	16.4	78.1	110633	8	AL353710	AL353710 Human DNA	326	16.2	77.1	574	6	AR500325	AR500325 Sequence
254	16.4	78.1	113442	8	AC137840	AC137840 Homo sapi	327	16.2	77.1	574	6	AR515607	AR515607 Sequence
255	16.4	78.1	118987	14	AC160885	AC160885 Homo sapi	328	16.2	77.1	622	10	BV329793	BV329793 S21P6228
256	16.4	78.1	126974	4	AC151776	AC151776 Sorex ara	329	16.2	77.1	628	10	BV324428	BV324428 S21P64FB
257	16.4	78.1	128809	14	AC105931	AC105931 Magnaport	330	16.2	77.1	636	10	BV245943	BV245943 S23P6140
258	16.4	78.1	135382	8	AC023798	AC023798 Homo sapi	331	16.2	77.1	646	10	BV417655	BV417655 S229P6175
259	16.4	78.1	139163	14	AC148750	AC148750 Homo sapi	332	16.2	77.1	701	15	AY129699	AY129699 Panicum b
260	16.4	78.1	142707	8	HSJ279A18	AL049696 Human DNA	333	16.2	77.1	724	10	BV500679	BV500679 S222P6237
261	16.4	78.1	143947	8	AC012462	AC012462 Homo sapi	334	16.2	77.1	736	10	BV660163	BV660163 S216P6176
262	16.4	78.1	144184	14	AL138732	AL138732 Homo sapi	335	16.2	77.1	790	10	BV636518	BV636518 S217P6128
263	16.4	78.1	147836	15	AP003983	AP003983 Oryza sat	336	16.2	77.1	936	6	AR206755	AR206755 Sequence
264	16.4	78.1	150311	9	AC112081	AC112081 Rattus no	337	16.2	77.1	1190	15	AY423097	AY423097 Epithema
265	16.4	78.1	151453	15	AP005125	AP005125 Oryza sat	338	16.2	77.1	1581	9	BC055850	BC055850 Mus muscu
266	16.4	78.1	151652	14	AC128137	AC128137 Rattus no	339	16.2	77.1	1647	13	AY030312	AY030312 Human cal
267	16.4	78.1	152680	14	AC161715	AC161715 Sorex ara	340	16.2	77.1	1647	13	AY030313	AY030313 Human cal
268	16.4	78.1	153414	8	AC093430	AC093430 Homo sapi	341	16.2	77.1	1683	6	AR103994	AR103994 Sequence
269	16.4	78.1	157807	8	AC073573	AC073573 Homo sapi	342	16.2	77.1	2396	15	NP5279019	NP5279019
270	16.4	78.1	159035	15	AP004304	AP004304 Oryza sat	343	16.2	77.1	2838	13	HS30RF	HS30RF
271	16.4	78.1	164359	8	AC009899	AC009899 Homo sapi	344	16.2	77.1	2844	13	U02030	U02030 Minireoviru
272	16.4	78.1	166892	8	AC007463	AC007463 Homo sapi	345	16.2	77.1	3019	13	AF414414	AF414414
273	16.4	78.1	168153	14	AC148741	AC148741 Macropus	346	16.2	77.1	3019	13	AF414415	AF414415
274	16.4	78.1	169229	9	AC154019	AC154019 Mus muscu	347	16.2	77.1	3020	13	AF414411	AF414411
275	16.4	78.1	170134	8	AC096918	AC096918 Homo sapi	348	16.2	77.1	3021	13	AF414413	AF414413
276	16.4	78.1	171438	5	EX901918	EX901918 Zebrafish	349	16.2	77.1	3327	6	AX505662	AX505662 Sequence
277	16.4	78.1	172793	14	AC023659	AC023659 Homo sapi	350	16.2	77.1	3755	2	AP280620	AP280620 Papilio c
278	16.4	78.1	173757	14	AC149852	AC149852 Papio anu	351	16.2	77.1	4213	15	AK070172	AK070172 Oryza sat
279	16.4	78.1	174395	14	AC131875	AC131875 Rattus no	352	16.2	77.1	5936	6	CQ582560	CQ582560 Sequence
280	16.4	78.1	174456	14	AP001356	AP001356 Homo sapi	353	16.2	77.1	6564	6	AR595022	AR595022 Sequence
281	16.4	78.1	183457	9	AC111069	AC111069 Mus muscu	354	16.2	77.1	6564	6	BD016835	BD016835 Novel cyt
282	16.4	78.1	184232	5	CR381684	CR381684 Zebrafish	355	16.2	77.1	6730	14	AC014377	AC014377 Drosophil
283	16.4	78.1	185437	8	AC012075	AC012075 Homo sapi	356	16.2	77.1	8929	9	AB100417	AB100417 Mus muscu
284	16.4	78.1	185807	14	CR847842	CR847842 Homo sapi	357	16.2	77.1	9042	9	AB100416	AB100416 Mus muscu
285	16.4	78.1	187694	14	AC123193	AC123193 Rattus no	358	16.2	77.1	9048	9	AB100415	AB100415 Mus muscu
286	16.4	78.1	189165	14	AC150598	AC150598 Callithri	359	16.2	77.1	9074	9	AB100414	AB100414 Mus muscu
287	16.4	78.1	190284	14	AC115524	AC115524 Rattus no	360	16.2	77.1	9140	9	AB100418	AB100418 Mus muscu
288	16.4	78.1	190298	9	AC102676	AC102676 Mus muscu	361	16.2	77.1	11204	6	BD016860	BD016860 Novel cyt
289	16.4	78.1	191028	14	AC121666	AC121666 Rattus no	362	16.2	77.1	11204	6	BD016860	BD016860 Novel cyt
290	16.4	78.1	192585	14	CR354534	CR354534 Danio rer	363	16.2	77.1	11204	8	AB040430	AB040430 Homo sapi
291	16.4	78.1	193632	14	CR324502	AC123502 Rattus no	364	16.2	77.1	30577	8	AC114274	AC114274 Homo sapi
292	16.4	78.1	194199	14	AC135287	AC135287 Rattus no	365	16.2	77.1	34013	8	HSU73634	HSU73634 Human chrom
293	16.4	78.1	194884	14	AC160711	AC160711 Bos tauru	366	16.2	77.1	39093	14	AC158744	AC158744 Oryctolag
294	16.4	78.1	195501	8	AC007351	AC007351 Homo sapi	367	16.2	77.1	41150	8	AL445214	AL445214 Human DNA
295	16.4	78.1	198652	8	AC009303	AC009303 Homo sapi	368	16.2	77.1	42388	9	AL844202	AL844202 Mouse DNA
296	16.4	78.1	203311	9	AC144949	AC144949 Mus muscu	369	16.2	77.1	46397	14	AC134159	AC134159 Rattus no
297	16.4	78.1	203770	8	AC082651	AC082651 Homo sapi	370	16.2	77.1	53855	8	AL954833	AL954833 Human DNA
298	16.4	78.1	210088	8	AC161276	AC161276 Pan trogl	371	16.2	77.1	58030	5	EX928741	EX928741 Zebrafish
299	16.4	78.1	212524	14	CR855319	CR855319 Danio rer	372	16.2	77.1	59577	8	AL589796	AL589796 Human DNA
300	16.4	78.1	217835	14	AC127739	AC127739 Rattus no	373	16.2	77.1	61923	8	AC108139	AC108139 Homo sapi
301	16.4	78.1	220522	9	AL663064	AL663064 Mouse DNA	374	16.2	77.1	62536	8	AC005692	AC005692 Homo sapi
302	16.4	78.1	220720	14	AC154400	AC154400 Mus muscu	375	16.2	77.1	71132	8	AC092184	AC092184 Homo sapi
303	16.4	78.1	226981	14	AC127822	AC127822 Rattus no	376	16.2	77.1	75395	6	AR265356	AR265356 Sequence
304	16.4	78.1	228999	14	AC083885	AC083885 Homo sapi	377	16.2	77.1	75395	9	AL487612	AL487612 Sequence
305	16.4	78.1	232539	14	AC159474	AC159474 Mus muscu	378	16.2	77.1	78258	9	AL672030	AL672030 Mouse DNA
306	16.4	78.1	240173	9	AC113110	AC113110 Mus muscu	379	16.2	77.1	79375	15	ATT20K18	ATT20K18
307	16.4	78.1	250135	14	AC161685	AC161685 Bos tauru	380	16.2	77.1	84096	14	AC074170	AC074170 Mus muscu
308	16.4	78.1	250522	14	AC094765	AC094765 Rattus no	381	16.2	77.1	87244	15	AC093920	AC093920 Oryza sat
309	16.4	78.1	251144	14	AC109565	AC109565 Rattus no	382	16.2	77.1	87684	4	AY152828	AY152828 Felis cat
310	16.4	78.1	251505	14	AC128579	AC128579 Rattus no	383	16.2	77.1	88079	8	AL161715	AL161715 Human DNA

C 384	16.2	77.1	97572	15	AP004155	AP004155 Oryza sat	457	16.2	77.1	151024	15	CNS08C9L	AL732646 Oryza sat
C 385	16.2	77.1	99373	14	AP007580	AP007580 Lotus cor	C 458	16.2	77.1	152208	9	AC0129203	AC0129203 Mus muscu
C 386	16.2	77.1	99866	8	AL358115	AL358115 Human DNA	C 459	16.2	77.1	152333	8	AC010476	AC010476 Homo sapi
C 387	16.2	77.1	103268	8	HS67M12	AL008732 Human DNA	C 460	16.2	77.1	153241	14	AC155211	AC155211 Daaypus n
C 388	16.2	77.1	103872	8	AC026694	AC026694 Homo sapi	C 461	16.2	77.1	153772	8	AC104464	AC104464 Homo sapi
C 389	16.2	77.1	104957	8	AL365217	AL365217 Human DNA	C 462	16.2	77.1	154244	8	AL360231	AL360231 Human DNA
C 390	16.2	77.1	109626	8	AC0010346	AC010346 Homo sapi	C 463	16.2	77.1	155106	15	AC097174	AC097174 Oryza sat
C 391	16.2	77.1	110000	1	BA000034	Continuation (35 o	C 464	16.2	77.1	155359	8	AP003689	AP003689 Homo sapi
C 392	16.2	77.1	110000	1	BA000033_15	Continuation (16 o	C 465	16.2	77.1	156451	14	AC155062	AC155062 Bos tauru
C 393	16.2	77.1	110000	1	BS71856_16	Continuation (17 o	C 466	16.2	77.1	158199	14	AC022921	AC022921 Homo sapi
C 394	16.2	77.1	110000	1	CP000083_42	Continuation (43 o	C 467	16.2	77.1	158633	14	AC015472	AC015472 Homo sapi
C 395	16.2	77.1	110000	15	AP008214_094	Continuation (95 o	C 468	16.2	77.1	158759	14	AC136665	AC136665 Rattus no
C 396	16.2	77.1	110000	15	AP008216_202	Continuation (203 o	C 469	16.2	77.1	158903	5	AC147645	AC147645 Gallus ga
C 397	16.2	77.1	110000	15	AP008218_077	Continuation (78 o	C 470	16.2	77.1	159314	14	AC134321	AC134321 Felis cat
C 398	16.2	77.1	110000	15	AP008207_021	Continuation (22 o	C 471	16.2	77.1	159326	14	AC024473	AC024473 Homo sapi
C 399	16.2	77.1	110000	15	AP008207_118	Continuation (119	C 472	16.2	77.1	159667	8	AC078953	AC078953 Homo sapi
C 400	16.2	77.1	110000	15	AP008209_191	Continuation (192	C 473	16.2	77.1	160100	2	AC023714	AC023714 Drosophil
C 401	16.2	77.1	110000	15	AP008211_052	Continuation (53 o	C 474	16.2	77.1	161969	14	AC113571	AC113571 Canis fam
C 402	16.2	77.1	110000	15	AP008211_161	Continuation (162	C 475	16.2	77.1	163118	4	AC148214	AC148214 Monodelph
C 403	16.2	77.1	110000	15	AP008213_271	Continuation (272	C 476	16.2	77.1	163377	14	AC007897	AC007897 Homo sapi
C 404	16.2	77.1	110204	8	AC126469	AC126469 Homo sapi	C 477	16.2	77.1	163677	8	AL390844	AL390844 Human DNA
C 405	16.2	77.1	110756	8	AC025174	AC025174 Homo sapi	C 478	16.2	77.1	163872	5	AL954666	AL954666 Zebrafish
C 406	16.2	77.1	110756	8	AC025174	AC025174 Homo sapi	C 479	16.2	77.1	163921	14	AL390782	AL390782 Homo sapi
C 407	16.2	77.1	112393	8	AC021739	AC021739 Homo sapi	C 480	16.2	77.1	164246	14	AC016371	AC016371 Homo sapi
C 408	16.2	77.1	115981	8	AC116361	AC116361 Homo sapi	C 481	16.2	77.1	164394	8	AC157956	AC157956 Pan trogl
C 409	16.2	77.1	117879	8	AC110004	AC110004 Homo sapi	C 482	16.2	77.1	164845	8	HSJ1027G4	AL049647 Human DNA
C 410	16.2	77.1	118985	14	AC148645	AC148645 Taeniopyg	C 483	16.2	77.1	164936	9	AC156393	AC156393 Mus muscu
C 411	16.2	77.1	120864	14	AC149020	AC149020 Taeniopyg	C 484	16.2	77.1	165295	14	AC068486	AC068486 Homo sapi
C 412	16.2	77.1	122351	8	AP003780	AP003780 Homo sapi	C 485	16.2	77.1	165384	14	AC055735	AC055735 Homo sapi
C 413	16.2	77.1	122915	15	AC157984	AC157984 Medicago	C 486	16.2	77.1	165467	14	AC164294	AC164294 Mus muscu
C 414	16.2	77.1	124642	14	AC161736	AC161736 Loxodonta	C 487	16.2	77.1	166042	8	AP006289	AP006289 Homo sapi
C 415	16.2	77.1	124815	13	DQ008355	DQ008355 Human her	C 488	16.2	77.1	166751	9	AC087066	AC087066 Rattus no
C 416	16.2	77.1	124821	13	DQ008354	DQ008354 Human her	C 489	16.2	77.1	166928	14	AC110905	AC110905 Mus muscu
C 417	16.2	77.1	124883	13	AY548170	AY548170 Human her	C 490	16.2	77.1	167237	14	AC021609	AC021609 Homo sapi
C 418	16.2	77.1	124884	6	BD097170	BD097170 Method fo	C 491	16.2	77.1	167404	4	AY208121	AY208121 Sus scrof
C 419	16.2	77.1	124884	6	AR283580	AR283580 Sequence	C 492	16.2	77.1	168267	15	AP003535	AP003535 Oryza sat
C 420	16.2	77.1	124884	6	AR431491	AR431491 Sequence	C 493	16.2	77.1	168581	9	AC104862	AC104862 Mus muscu
C 421	16.2	77.1	124884	6	AR630981	AR630981 Sequence	C 494	16.2	77.1	168838	5	BX296544	BX296544 Zebrafish
C 422	16.2	77.1	124884	13	HBVZVXX	X04370 Human herpe	C 495	16.2	77.1	169108	14	AC147102	AC147102 Pan trogl
C 423	16.2	77.1	125078	13	AB097932	AB097932 Human her	C 496	16.2	77.1	169379	14	AC149124	AC149124 Papio anu
C 424	16.2	77.1	125125	13	AB097933	AB097933 Human her	C 497	16.2	77.1	170563	9	AC115970	AC115970 Mus muscu
C 425	16.2	77.1	125157	6	BD097171	BD097171 Method fo	C 498	16.2	77.1	171316	14	AC146640	AC146640 Otolemur
C 426	16.2	77.1	125157	6	AR431492	AR431492 Sequence	C 499	16.2	77.1	171501	14	AC026943	AC026943 Homo sapi
C 427	16.2	77.1	125459	13	AY548171	AY548171 Human her	C 500	16.2	77.1	172173	9	AP003148	AP003148 Mus muscu
C 428	16.2	77.1	127255	14	AC159162	AC159162 Carollia							
C 429	16.2	77.1	127331	15	AC157894	AC157894 Medicago							
C 430	16.2	77.1	127725	8	AC023813	AC023813 Homo sapi							
C 431	16.2	77.1	128220	9	AC004457	AC004457 Homo sapi							
C 432	16.2	77.1	128614	9	BX510300	BX510300 Mouse DNA							
C 433	16.2	77.1	132445	4	AY152826	AY152826 Felis cat							
C 434	16.2	77.1	134174	8	AC009495	AC009495 Homo sapi							
C 435	16.2	77.1	137559	14	CR936948	CR936948 Medicago							
C 436	16.2	77.1	138369	14	AC0079546	AC0079546 Mus muscu							
C 437	16.2	77.1	138461	14	AC113576	AC113576 Tetraodon							
C 438	16.2	77.1	138871	14	AC138441	AC138441 Tetraodon							
C 439	16.2	77.1	139766	14	AC156929	AC156929 Gallus ga							
C 440	16.2	77.1	140974	8	AC068533	AC068533 Homo sapi							
C 441	16.2	77.1	141862	15	AP002913	AP002913 Oryza sat							
C 442	16.2	77.1	143056	5	BX649559	BX649559 Zebrafish							
C 443	16.2	77.1	143400	15	AC134927	AC134927 Oryza sat							
C 444	16.2	77.1	143751	14	AC093457	AC093457 Schistoso							
C 445	16.2	77.1	143931	15	AP006459	AP006459 Oryza sat							
C 446	16.2	77.1	144090	14	AC150031	AC150031 Daaypus n							
C 447	16.2	77.1	144364	8	HS187J11	AL035689 Human DNA							
C 448	16.2	77.1	144699	9	AC122040	AC122040 Mus muscu							
C 449	16.2	77.1	145100	14	AC024641	AC024641 Homo sapi							
C 450	16.2	77.1	145133	14	AC013822	AC013822 Homo sapi							
C 451	16.2	77.1	146055	15	CNS08C8A	AL731786 Oryza sat							
C 452	16.2	77.1	146598	14	AC025124	AC025124 Homo sapi							
C 453	16.2	77.1	147595	14	AC162139	AC162139 Loxodonta							
C 454	16.2	77.1	148219	9	AC108951	AC108951 Mus muscu							
C 455	16.2	77.1	148507	14	AC011263	AC011263 Homo sapi							
C 456	16.2	77.1	150137	15	AC135226	AC135226 Oryza sat							

ALIGNMENTS

RESULT 1	AF487459/c	AF487459	2002 bp	linear	PLN 24-MAR-2002
LOCUS	Bromus tectorum acetolactate synthase (ALS) mRNA, partial cds.				
DEFINITION	Bromus tectorum acetolactate synthase (ALS) mRNA, partial cds.				
ACCESSION	AF487459				
VERSION	AF487459.1	GI:19698558			
KEYWORDS	Bromus tectorum				
SOURCE	Bromus tectorum				
ORGANISM	Bromus tectorum				
REFERENCE	1 (bases 1 to 2002)				
AUTHORS	Park, K.-W., Mallory-Smith, C.A., Ball, D.A. and Mueller-Warrant, G.W.				
TITLE	Partial sequence of downy brome acetolactate synthase				
JOURNAL	Unpublished				
REFERENCE	2 (bases 1 to 2002)				
AUTHORS	Park, K.-W., Mallory-Smith, C.A., Ball, D.A. and Mueller-Warrant, G.W.				
TITLE	Direct Submission				
JOURNAL	Submitted (25-FEB-2002) CropSoil Sci., Oregon State Univ., Corvallis, OR 97331-3002, USA				
FEATURES	Location/Qualifiers				
source	1..2002				
	/organism="Bromus tectorum"				

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 177.692 Seconds
(without alignment)
787.645 Million cell updates/sec

Title: US-10-805-973-2

Perfect score: 21

Sequence: 1 gtaggacaagaactgtcatg 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

N_Geneseq_21.*

1: Geneseqn1980s.*

2: Geneseqn1990s.*

3: Geneseqn2000s.*

4: Geneseqn2001as.*

5: Geneseqn2001bs.*

6: Geneseqn2002as.*

7: Geneseqn2002bs.*

8: Geneseqn2003as.*

9: Geneseqn2003bs.*

10: Geneseqn2003cs.*

11: Geneseqn2003ds.*

12: Geneseqn2004as.*

13: Geneseqn2004bs.*

14: Geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	19.4	92.4	521	8	ABX98502 Rice albu
C 2	19.4	92.4	2279	6	ABK14658 cDNA enco
C 3	19.4	92.4	2279	6	ABN89399 Rice acet
C 4	19.4	92.4	2294	10	ADDA2026 Rice acet
C 5	19.4	92.4	2294	10	ADDA2024 Rice acet
C 6	19.4	92.4	2300	10	ADDA2022 Rice acet
C 7	19.4	92.4	2301	6	ABK14657 Rice acet
C 8	19.4	92.4	2301	10	ADDA2020 Rice acet
C 9	17.8	84.8	1243	10	ADC85890 Human GPC
C 10	17.8	84.8	1502	10	ADC86138 Human GPC
C 11	17.8	84.8	13973	6	ABK50459 Human cas
C 12	17.4	82.9	11653	14	ABK61213 Human CES
C 13	17.4	82.9	17434	8	AAS52012 Human car
C 14	17.4	81.0	3297	5	AAS91437 DNA enco
C 15	16.8	80.0	1184	11	ACN90929 Breast ca
C 16	16.8	80.0	1305	6	ABQ60828 Human DKF
C 17	16.8	80.0	58803	11	ACN44304 Mouse gen
C 18	16.8	80.0	73718	14	ADZ12958 Murine ca
C 19	16.8	80.0	93544	13	ABD33504 Human can

C 20	16.8	80.0	151909	14	ABX96535
C 21	16.4	78.1	507	4	AAL26419
C 22	16.4	78.1	507	11	ACN8534 Breast ca
C 23	16.4	78.1	11026	4	AAK72958 Human imm
C 24	16.4	78.1	31749	4	AAK72959 Human imm
C 25	16.4	78.1	78925	3	AAK89888 Human FN
C 26	16.2	77.1	309	12	ADP61538 Soybean c
C 27	16.2	77.1	936	6	ABL59836 Streptoco
C 28	16.2	77.1	936	12	ADLI5959 Complem
C 29	16.2	77.1	1139	10	ADLE07273 Novel cod
C 30	16.2	77.1	1146	10	ADLE09531 Novel DNA
C 31	16.2	77.1	1683	2	AAV06047 1683 bp f
C 32	16.2	77.1	3327	6	ABZ12552 Arabidops
C 33	16.2	77.1	5936	4	ABL08718 Drosophil
C 34	16.2	77.1	6564	3	AAK55314 Human act
C 35	16.2	77.1	11204	3	AAK55339 Human act
C 36	16.2	77.1	11204	6	ABX73286 DNA enco
C 37	16.2	77.1	75395	8	ABX93648 Human gen
C 38	16.2	77.1	75395	12	ADI30082 Human kin
C 39	16.2	77.1	75395	12	ADQ60237 Human kin
C 40	16.2	77.1	124884	5	AAH74201 Nucleotid
C 41	16.2	77.1	124884	10	ADA14878 Human her
C 42	16.2	77.1	124884	11	ADL99489 Varicella
C 43	16.2	77.1	125157	5	AAH74202 Nucleotid
C 44	16.2	77.1	155350	13	ABD33514 Murine ca
C 45	16	76.2	372	6	ABN23339 Human ORF
C 46	16	76.2	1095	14	ADY52665 Human fet
C 47	16	76.2	2120	10	ADD45283 Rat gene
C 48	16	76.2	6391	13	ADQ85331 Human tum
C 49	16	76.2	6436	13	ACF87523 Human SIR
C 50	16	76.2	6594	14	ADX98466 Human ade
C 51	16	76.2	6594	14	ADZ48787 Insulin s
C 52	15.8	75.2	275	14	ADX25731 Novel cel
C 53	15.8	75.2	290	6	ABK30359 Human G-p
C 54	15.8	75.2	324	2	AAV86535 EST clone
C 55	15.8	75.2	338	2	AAK21102 Polyucle
C 56	15.8	75.2	370	13	ADU12259 Solid tum
C 57	15.8	75.2	446	9	ACH47204 Human inf
C 58	15.8	75.2	516	6	ABV95253 Human pan
C 59	15.8	75.2	552	9	ACF36042 Human ova
C 60	15.8	75.2	552	12	ADG08802 Human ova
C 61	15.8	75.2	577	2	AAV87120 EST clone
C 62	15.8	75.2	588	5	AAF94119 Primer sp
C 63	15.8	75.2	588	14	ADY63546 Human clo
C 64	15.8	75.2	696	4	AAI96880 Human neu
C 65	15.8	75.2	705	8	ABZ18508 Group III
C 66	15.8	75.2	793	2	AAZ17313 Human gen
C 67	15.8	75.2	793	2	AAK98788 Human val
C 68	15.8	75.2	813	2	AAZ15750 Human gen
C 69	15.8	75.2	813	2	AAZ15759 Human gen
C 70	15.8	75.2	887	4	AAK73175 Human imm
C 71	15.8	75.2	887	4	AAK70105 Human imm
C 72	15.8	75.2	887	4	AAK73174 Human imm
C 73	15.8	75.2	887	4	AAK70104 Human imm
C 74	15.8	75.2	900	5	ABV27175 Human pro
C 75	15.8	75.2	900	5	ABV21356 Human pro
C 76	15.8	75.2	905	12	ADQ22853 Human sof
C 77	15.8	75.2	1019	13	ADS10333 Human the
C 78	15.8	75.2	1121	2	AAT02574 Human fib
C 79	15.8	75.2	1121	4	AAC91284 Human fib
C 80	15.8	75.2	1404	5	AAS91955 DNA enco
C 81	15.8	75.2	1422	2	AAT42466 Fibroblas
C 82	15.8	75.2	1422	2	AAT42466 Fibroblas
C 83	15.8	75.2	1422	2	AAT86314 Human fib
C 84	15.8	75.2	1422	2	AAV21385 Fibroblas
C 85	15.8	75.2	1479	8	ACA28857 Prokaryot
C 86	15.8	75.2	1482	13	ADT17350 Plant CDN
C 87	15.8	75.2	1631	4	AAS34925 cDNA enco
C 88	15.8	75.2	1631	10	ADC46083 Human neo
C 89	15.8	75.2	1650	14	ADW17037 Pinus rad
C 90	15.8	75.2	1932	13	ADU07834 DNA seque
C 91	15.8	75.2	2000	11	ACL38508 Rice stre
C 92	15.8	75.2	2000	11	ACL37408 Rice stre
C 93	15.8	75.2	2010	2	AAZ40848 Secreted

c 93	15.8	75.2	2010	11	ADM77870	Adm77870 Human cDN	166	15.4	73.3	3917	4	AAH17589	Aah17589 Human cDN
c 94	15.8	75.2	2010	12	ADP19146	Adp19146 Human sec	167	15.4	73.3	4033	12	ADQ67499	Adq67499 Novel hum
c 95	15.8	75.2	2010	14	ADZ89330	Adz89330 Secreted	168	15.4	73.3	4350	5	AAS79916	Aas79916 DNA encod
c 96	15.8	75.2	2033	2	AAV49560	Aav49560 Human epi	c 169	15.4	73.3	6120	4	AAK86301	Aak86301 Human imm
c 97	15.8	75.2	2034	6	ARN83320	Arn83320 Human ren	170	15.4	73.3	20001	13	ADT77133	Adt77133 Type II d
c 98	15.8	75.2	2037	13	ADU07831	Adu07831 DNA seque	171	15.4	73.3	22813	4	AAK82016	Aak82016 Human imm
c 99	15.8	75.2	2043	13	ADR67118	Adr67118 Human bla	172	15.4	73.3	22813	4	AAK86303	Aak86303 Human imm
c 100	15.8	75.2	2044	14	ADZ49380	Adz49380 Insulin s	173	15.4	73.3	22813	4	AAK65271	Aak65271 Human imm
c 101	15.8	75.2	2044	14	ADZ67447	Adz67447 Different	174	15.4	73.3	22813	4	AAK87333	Aak87333 Human imm
c 102	15.8	75.2	2044	14	ABE56457	Ab56457 Radiochem	175	15.4	73.3	110000	14	AEA61160_1	Continuation (2 of
c 103	15.8	75.2	2044	14	ABE56457	Ab56457 Radiochem	c 176	15.4	73.3	110000	14	AEA61169_1	Continuation (2 of
c 104	15.8	75.2	2049	7	ADW73147	Adw73147 Human kid	c 177	15.4	73.3	150935	8	ABZ80818	Abz80818 Human PAI
c 105	15.8	75.2	2049	7	ADW42001	Adw42001 cDNA elev	c 178	15.4	73.3	191395	12	ADL08126	Adl08126 Human gen
c 106	15.8	75.2	2049	10	ADG32876	Adg32876 Human DNA	c 179	15.4	73.3	217409	11	ACN45150	Acn45150 Human gen
c 107	15.8	75.2	2092	5	AAF93774	Aaf93774 Human cDN	180	15.4	73.3	272022	12	ADQ97126	Adq97126 Human can
c 108	15.8	75.2	2092	14	ADY63058	Ady63058 Human clo	181	15.2	72.4	399	10	ADK61577	Adk61577 Ovarian c
c 109	15.8	75.2	2099	4	AAF97929	Aaf97929 Human sec	182	15.2	72.4	399	13	ACF82132	Acf82132 Human SIR
c 110	15.8	75.2	2108	4	AAF97893	Aaf97893 Human sec	183	15.2	72.4	401	4	AAK95613	Aak95613 Human neu
c 111	15.8	75.2	2110	6	ABU89563	Abu89563 Human pol	184	15.2	72.4	401	4	AAK97106	Aak97106 Human neu
c 112	15.8	75.2	2240	5	ABA18173	Ab18173 Human ner	185	15.2	72.4	401	6	ABT00383	Abt00383 Human neu
c 113	15.8	75.2	2297	12	ADQ23781	Adq23781 Human sof	186	15.2	72.4	401	6	ABT01876	Abt01876 Human neu
c 114	15.8	75.2	2379	12	ADO19942	Ado19942 Human PRO	187	15.2	72.4	401	11	ADW70702	Adw70702 Human neu
c 115	15.8	75.2	2379	18	ACC46720	Acc46720 Human dit	188	15.2	72.4	413	4	AAI87863	Aai87863 Human pol
c 116	15.8	75.2	2736	13	ADS60589	Ads60589 Bacterial	c 189	15.2	72.4	442	3	AAK11704	Aac11704 Human sec
c 117	15.8	75.2	2742	11	ACL30380	Acl30380 Rice abio	c 190	15.2	72.4	448	4	AAK65770	Aak65770 Human imm
c 118	15.8	75.2	2742	11	ACL27735	Acl27735 Rice abio	c 191	15.2	72.4	465	3	AAA11268	Aaa11268 Hirudo me
c 119	15.8	75.2	2747	6	ABS51838	Abs51838 Novel hum	c 192	15.2	72.4	468	9	ACH44014	Ach44014 Human foe
c 120	15.8	75.2	2817	13	ADR83521	Adr83521 Human fib	c 193	15.2	72.4	472	6	ABK30863	Abk30863 Plant dwa
c 121	15.8	75.2	3308	8	ABZ36229	Abz36229 Human sec	c 194	15.2	72.4	479	11	ACN86751	Acn86751 Breast ca
c 122	15.8	75.2	3495	12	ADL12389	Adl12389 Human ste	c 195	15.2	72.4	491	6	ABK55106	Abk55106 Human col
c 123	15.8	75.2	3516	4	AAK85421	Aak85421 Human imm	196	15.2	72.4	500	5	ABV53456	Abv53456 Human pro
c 124	15.8	75.2	4101	12	ADQ25265	Adq25265 Human sof	197	15.2	72.4	522	11	ACL29451	Acl29451 Rice abio
c 125	15.8	75.2	9112	4	ABU21684	Abu21684 Drosophil	198	15.2	72.4	538	3	AAK73290	Aak73290 Human lun
c 126	15.8	75.2	11628	2	AAK80004	Aak80004 Polynucle	199	15.2	72.4	538	4	AAD23366	Aad23366 Human lun
c 127	15.8	75.2	12060	4	AAK80004	Aak80004 Human imm	200	15.2	72.4	538	10	ADD66640	Add66640 Human lun
c 128	15.8	75.2	12174	12	ADI35082	Adi35082 Human PLA	201	15.2	72.4	538	10	ADE87894	Ade87894 Human lun
c 129	15.8	75.2	12174	12	ADJ09983	Adj09983 Human pho	202	15.2	72.4	563	13	ADU10439	Adu10439 Solid tum
c 130	15.8	75.2	13612	6	ABK47376	Abk47376 Human pho	c 203	15.2	72.4	601	13	ADR59340	Adr59340 Cotton cd
c 131	15.8	75.2	23109	4	AAK82298	Aak82298 Human imm	204	15.2	72.4	605	4	AAI10709	Aai10709 Human bre
c 132	15.8	75.2	25860	11	ACN44978	Acn44978 Human gen	205	15.2	72.4	607	4	AAI17784	Aai17784 Human bre
c 133	15.8	75.2	36159	6	ABN85329	Abn85329 Human kin	c 206	15.2	72.4	629	4	AAH70158	Aah70158 Human cer
c 134	15.8	75.2	53591	11	ACN44970	Acn44970 Human gen	c 207	15.2	72.4	629	13	ACN50705	Acn50705 Cotton an
c 135	15.8	75.2	64135	13	ABD33383	Abd33383 Murine ca	208	15.2	72.4	666	11	ACN80907	Acn80907 Breast ca
c 136	15.8	75.2	102457	9	ACH03408_3	ACH03408_3	c 209	15.2	72.4	696	6	ABQ65705	Abq65705 Arabidops
c 137	15.8	75.2	110000	8	ADU53224_2	ADU53224_2	c 210	15.2	72.4	700	4	AAH92480	Aah92480 Human inf
c 138	15.8	75.2	209613	14	ADY25743	Ady25743 Uridine p	211	15.2	72.4	707	2	AAK40076	Aak40076 Gastric c
c 139	15.4	73.3	345	14	ADY61647	Ady61647 Gene trap	212	15.2	72.4	714	6	ABK30739	Abk30739 Plant dwa
c 140	15.4	73.3	433	14	ABE89709	Ab89709 Isolated	213	15.2	72.4	714	6	ABL49464	Ab149464 Sequence
c 141	15.4	73.3	485	3	AAH30979	Aah30979 Human col	214	15.2	72.4	726	10	ADJ94118	Adj94118 Hairless
c 142	15.4	73.3	568	4	AAH05116	Aah05116 Human cDN	215	15.2	72.4	744	13	ADS59312	Ads59312 Bacterial
c 143	15.4	73.3	717	10	ADD17431	Add17431 DNA (SeqI	216	15.2	72.4	768	4	AAF22795	Aaf22795 Human pro
c 144	15.4	73.3	717	10	ADK54762	Adk54762 Plant DNA	c 217	15.2	72.4	801	3	AAK40409	Aak40409 Arabidops
c 145	15.4	73.3	761	4	AAH04507	Aah04507 Human cDN	218	15.2	72.4	815	4	AAF22791	Aaf22791 Human pro
c 146	15.4	73.3	816	10	ADC91876	Adc91876 E. faeciu	219	15.2	72.4	819	4	AAF22649	Aaf22649 Human gas
c 147	15.4	73.3	884	8	AAK26251	Aak26251 Human cDN	220	15.2	72.4	840	2	AAK67387	Aak67387 H. pylori
c 148	15.4	73.3	884	8	AAK73592	Aak73592 Human nov	221	15.2	72.4	843	2	AAK30419	Aak30419 H. pylori
c 149	15.4	73.3	1404	4	AAK86302	Aak86302 Human imm	222	15.2	72.4	852	2	AAK67945	Aak67945 H. pylori
c 150	15.4	73.3	1517	8	ACC46348	Acc46348 Human dit	223	15.2	72.4	852	11	ACN90006	Acn90006 Breast ca
c 151	15.4	73.3	1909	13	ADK12340	Adk12340 Plant ful	c 224	15.2	72.4	909	11	ACN90271	Acn90271 Breast ca
c 152	15.4	73.3	2100	4	AAK90390	Aak90390 Human dig	225	15.2	72.4	930	4	AAH47618	Aah47618 Candida C
c 153	15.4	73.3	2100	4	AAK90389	Aak90389 Human dig	c 226	15.2	72.4	934	5	AAH43396	Aah43396 Candida C
c 154	15.4	73.3	2100	4	AAH17354	Aah17354 Human cDN	c 227	15.2	72.4	934	2	AAK92699	Aak92699 Candida C
c 155	15.4	73.3	2100	5	AAK39946	Aak39946 Genomic s	c 228	15.2	72.4	934	2	AAK92866	Aak92866 Candida C
c 156	15.4	73.3	2100	5	AAK39945	Aak39945 Genomic s	c 229	15.2	72.4	934	2	AAZ11688	Aaz11688 Candida R
c 157	15.4	73.3	2100	9	ADB32906	Adb32906 Human nov	c 230	15.2	72.4	979	6	ABN74787	Abn74787 Bovine em
c 158	15.4	73.3	2100	9	ADB32905	Adb32905 Human nov	231	15.2	72.4	979	6	ABN74786	Abn74786 Bovine em
c 159	15.4	73.3	2106	10	ADF82459	Adf82459 Leukaemia	c 232	15.2	72.4	1004	6	ABX93063	Abx93063 C. annuum
c 160	15.4	73.3	2181	8	ACC46332	Acc46332 Human dit	233	15.2	72.4	1024	6	ABX66814	Abx66814 Helicobac
c 161	15.4	73.3	2181	8	ACC46401	Acc46401 Human dit	c 234	15.2	72.4	1278	9	ADA29424	Ada29424 DNA encod
c 162	15.4	73.3	3041	8	AAU51579	Aau51579 Human nuc	c 235	15.2	72.4	1318	3	AAK35042	Aak35042 Arabidops
c 163	15.4	73.3	3153	5	AAU568361	Aau568361 DNA encod	c 236	15.2	72.4	1319	3	AAK49865	Aak49865 Arabidops
c 164	15.4	73.3	3153	5	AAK89255	Aak89255 DNA encod	c 237	15.2	72.4	1336	4	AAF22790	Aaf22790 Human pro
c 165	15.4	73.3	3691	13	ADR08105	Adr08105 Full leng	c 238	15.2	72.4	1387	13	ADT15123	Adt15123 Plant cDN

239	15.2	72.4	1500	2	AA06947	C-promote	Abk6944	Human sec
240	15.2	72.4	1579	10	ADP77067	Novel hum	Abk6944	Human sec
241	15.2	72.4	1580	2	AA06947	Novel hum	Abk6944	Human sec
242	15.2	72.4	1580	4	AD11117	Human sma	Abk6944	Human sec
243	15.2	72.4	1580	6	ABV78064	Hypoxia-r	Abk6944	Human sec
244	15.2	72.4	1580	10	ADG10725	Human STA	Abk6944	Human sec
245	15.2	72.4	1580	13	ADP54970	Human STA	Abk6944	Human sec
246	15.2	72.4	1580	13	AA06947	Novel hum	Abk6944	Human sec
247	15.2	72.4	1704	14	AA06947	Novel hum	Abk6944	Human sec
248	15.2	72.4	1704	14	AA06947	Novel hum	Abk6944	Human sec
249	15.2	72.4	1722	10	ADG10835	Human STA	Abk6944	Human sec
250	15.2	72.4	1722	10	ADG10835	Human STA	Abk6944	Human sec
251	15.2	72.4	1758	10	ADG10889	Human STA	Abk6944	Human sec
252	15.2	72.4	1764	10	AA06947	Novel hum	Abk6944	Human sec
253	15.2	72.4	1836	12	AA06947	Novel hum	Abk6944	Human sec
254	15.2	72.4	1843	8	ABX77613	Different	Abk6944	Human sec
255	15.2	72.4	1857	14	ADY16672	DNA encod	Abk6944	Human sec
256	15.2	72.4	2067	8	ACA3861	Prokaryot	Abk6944	Human sec
257	15.2	72.4	2082	10	ADC92531	Prokaryot	Abk6944	Human sec
258	15.2	72.4	2152	2	AAQ25301	E. faeciu	Abk6944	Human sec
259	15.2	72.4	2152	2	AAQ25301	E. faeciu	Abk6944	Human sec
260	15.2	72.4	2152	2	AAQ25301	E. faeciu	Abk6944	Human sec
261	15.2	72.4	2152	2	AAQ25301	E. faeciu	Abk6944	Human sec
262	15.2	72.4	2220	13	ADX64655	Plant ful	Abk6944	Human sec
263	15.2	72.4	2397	13	ADT91418	Plant ful	Abk6944	Human sec
264	15.2	72.4	2613	8	ABT19419	Arabidops	Abk6944	Human sec
265	15.2	72.4	2640	6	ABL69103	Arabidops	Abk6944	Human sec
266	15.2	72.4	2640	6	ABL69103	Arabidops	Abk6944	Human sec
267	15.2	72.4	2640	13	ADR25666	Breast ca	Abk6944	Human sec
268	15.2	72.4	2670	14	ADY61851	Human gen	Abk6944	Human sec
269	15.2	72.4	2763	8	ABT21239	Aspergill	Abk6944	Human sec
270	15.2	72.4	2763	8	ABT21239	Aspergill	Abk6944	Human sec
271	15.2	72.4	2852	13	ADT90667	Human gen	Abk6944	Human sec
272	15.2	72.4	2858	9	ACH03797	Human cDN	Abk6944	Human sec
273	15.2	72.4	2858	10	ADJ56505	Human cDN	Abk6944	Human sec
274	15.2	72.4	2862	4	ABL17554	Drosophill	Abk6944	Human sec
275	15.2	72.4	2878	6	AA06947	Novel hum	Abk6944	Human sec
276	15.2	72.4	2881	8	ACA03960	Human DNA	Abk6944	Human sec
277	15.2	72.4	2891	10	AD054045	Human pro	Abk6944	Human sec
278	15.2	72.4	2922	14	ADY16914	Pinus rad	Abk6944	Human sec
279	15.2	72.4	2929	5	ABV25880	Human pro	Abk6944	Human sec
280	15.2	72.4	2978	10	ACA61619	cDNA enco	Abk6944	Human sec
281	15.2	72.4	2979	12	ADQ07189	Human hep	Abk6944	Human sec
282	15.2	72.4	2979	12	ADQ09207	Human KIA	Abk6944	Human sec
283	15.2	72.4	2979	12	ADQ09171	Human KIA	Abk6944	Human sec
284	15.2	72.4	2979	14	ADY15183	DNA enco	Abk6944	Human sec
285	15.2	72.4	4177	4	ABL13282	Drosophill	Abk6944	Human sec
286	15.2	72.4	4331	12	ADQ64888	Novel hum	Abk6944	Human sec
287	15.2	72.4	4523	4	ABL24380	Drosophill	Abk6944	Human sec
288	15.2	72.4	4763	8	ABT19231	Aspergill	Abk6944	Human sec
289	15.2	72.4	4763	8	ABT19231	Aspergill	Abk6944	Human sec
290	15.2	72.4	4956	2	ABT20045	Aspergill	Abk6944	Human sec
291	15.2	72.4	4956	6	ABT20045	Aspergill	Abk6944	Human sec
292	15.2	72.4	5093	12	ADQ18226	Human sof	Abk6944	Human sec
293	15.2	72.4	5360	8	ABX10381	DNA enco	Abk6944	Human sec
294	15.2	72.4	5360	13	ADP54684	Human PRO	Abk6944	Human sec
295	15.2	72.4	5360	13	ADP54684	Human PRO	Abk6944	Human sec
296	15.2	72.4	5360	14	ADX07797	Drug ther	Abk6944	Human sec
297	15.2	72.4	5360	14	ADY15863	Cyclin-de	Abk6944	Human sec
298	15.2	72.4	5574	8	ACD05999	DNA enco	Abk6944	Human sec
299	15.2	72.4	5668	3	AA06947	Novel hum	Abk6944	Human sec
300	15.2	72.4	5720	5	ADL62256	Lung canc	Abk6944	Human sec
301	15.2	72.4	5720	5	ADL62256	Lung canc	Abk6944	Human sec
302	15.2	72.4	7280	11	ACN91830	Breast ca	Abk6944	Human sec
303	15.2	72.4	7280	11	ACN91830	Breast ca	Abk6944	Human sec
304	15.2	72.4	7501	12	ADQ22773	Human sof	Abk6944	Human sec
305	15.2	72.4	7765	4	AA06947	Novel hum	Abk6944	Human sec
306	15.2	72.4	7765	5	ADL45290	Human bre	Abk6944	Human sec
307	15.2	72.4	7765	11	ACN88585	Breast ca	Abk6944	Human sec
308	15.2	72.4	10025	4	ABL14672	Drosophill	Abk6944	Human sec
309	15.2	72.4	12701	10	ADDA8676	Human gen	Abk6944	Human sec
310	15.2	72.4	13868	3	AA06947	Novel hum	Abk6944	Human sec
311	15.2	72.4	16449	4	ABL25556	Drosophill	Abk6944	Human sec
312	15.2	72.4	17327	2	AAQ44278	Serglycin	Abk6944	Human sec
313	15.2	72.4	19859	6	ABK69944		Abk69944	Human sec
314	15.2	72.4	20510	4	ABL02972	Drosophill	Abk69944	Human sec
315	15.2	72.4	28588	4	AAK89418	Human dig	Abk89418	Human dig
316	15.2	72.4	28588	5	AAK89418	Human dig	Abk89418	Human dig
317	15.2	72.4	28588	6	AAK89418	Human dig	Abk89418	Human dig
318	15.2	72.4	28588	11	ADJ15191	Human liv	Adj15191	Human liv
319	15.2	72.4	32829	13	ABD33037	Mouse can	Abd33037	Mouse can
320	15.2	72.4	33780	4	AAH24652	Nucleotid	Aah24652	Nucleotid
321	15.2	72.4	36714	13	ABD33628	Human can	Abd33628	Human can
322	15.2	72.4	36724	14	ADZ13602	Human can	Adz13602	Human can
323	15.2	72.4	55235	4	AAK67426	Human imm	Aak67426	Human imm
324	15.2	72.4	63626	10	ADC27000	Human car	Adc27000	Human car
325	15.2	72.4	63720	9	ADA03080	Human PRD	Ada03080	Human PRD
326	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
327	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
328	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
329	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
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331	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
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333	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
334	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
335	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
336	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
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354	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
355	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
356	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
357	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
358	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
359	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
360	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
361	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
362	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
363	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
364	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
365	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
366	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
367	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
368	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
369	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
370	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
371	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
372	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
373	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
374	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
375	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
376	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
377	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
378	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
379	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
380	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
381	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
382	15.2	72.4	63720	9	ADA66364	Human PRD	Ada66364	Human PRD
383	15.2	72.4	63720	9	ADA66364	Human PRD		

385	15	71.4	3342	8	AAD52553	Aad52553 F2D6 DNA.
386	15	71.4	3342	8	ABZ81825	Abz81825 Receptor
387	15	71.4	3342	11	ADN33177	Adn33177 Cancer/an
388	15	71.4	3342	11	ADN339797	Adn339797 Cancer/an
389	15	71.4	3342	12	ADQ22263	Adq22263 Human F2D
390	15	71.4	3342	12	ADQ96189	Adq96189 T cell ac
391	15	71.4	3342	12	ADQ96191	Adq96191 T cell ac
392	15	71.4	3342	14	ADY15219	Ady15219 DNA encod
393	15	71.4	3342	14	ADY13745	Ady13745 DNA encod
394	15	71.4	3492	2	AAX35745	Aax35745 cDNA encod
395	15	71.4	12595	4	AAS42100	Aas42100 Genomic s
396	15	71.4	22651	4	AAK78202	Aak78202 Human imm
397	15	71.4	31808	10	ADC86002	Adc86002 Human GPC
398	15	71.4	3927	12	ADM98979	Adm98979 Diterpene
399	15	71.4	155937	12	ADQ13389	Adq13389 Human sof
400	14.8	70.5	25	9	AC161940	Ac161940 Human mic
401	14.8	70.5	285	6	ABN79275	Abn79275 Human ORF
402	14.8	70.5	462	4	AAH11528	Aah11528 Human cDN
403	14.8	70.5	561	14	ACL56367	ACL56367 Human col
404	14.8	70.5	566	12	ADQ21408	Adq21408 Human sof
405	14.8	70.5	610	13	ACN56858	Acn56858 Cotton gy
406	14.8	70.5	672	13	ADR61469	Adr61469 Cotton CD
407	14.8	70.5	719	4	AAS23041	Aas23041 DNA encod
408	14.8	70.5	796	3	AAS56856	Aas56856 Mycoplasma
409	14.8	70.5	861	4	AAS22947	Aas22947 DNA encod
410	14.8	70.5	966	3	AZ299469	Az299469 Arabidops
411	14.8	70.5	966	6	AAD40259	Aad40259 A. thalia
412	14.8	70.5	998	12	ADQ84741	Adq84741 Human tum
413	14.8	70.5	1149	8	ABT19052	Abt19052 Aspergill
414	14.8	70.5	1149	8	ABT18458	Abt18458 Aspergill
415	14.8	70.5	1260	2	AAS235942	Aas235942 Streptoco
416	14.8	70.5	1361	13	ADX54883	Adx54883 Plant ful
417	14.8	70.5	1578	8	ADA70454	Ada70454 Rice gene
418	14.8	70.5	1594	12	ADQ25263	Adq25263 Human sof
419	14.8	70.5	1703	10	ADF28875	Adf28875 Human nor
420	14.8	70.5	1705	14	ACB67803	Acb67803 Rice geno
421	14.8	70.5	1889	13	ACN41145	Acn41145 Human dia
422	14.8	70.5	1953	13	ADT45358	Adt45358 Bacterial
423	14.8	70.5	1967	2	AAV12285	Aav12285 Human pro
424	14.8	70.5	1967	10	ADF28872	Adf28872 Human nor
425	14.8	70.5	1969	10	ADB59237	Adb59237 Toxicity-
426	14.8	70.5	1969	10	ADB53921	Adb53921 Primary r
427	14.8	70.5	1969	11	ADW22227	Adw22227 Rat hepat
428	14.8	70.5	1988	8	ABT20872	Abt20872 Aspergill
429	14.8	70.5	2000	11	ACL37213	ACL37213 Rice stre
430	14.8	70.5	2001	8	ACA24215	ACA24215 Prokaryot
431	14.8	70.5	2157	4	AH02147	Ah02147 Streptoco
432	14.8	70.5	2160	4	AAH01178	Aah01178 Streptoco
433	14.8	70.5	2160	4	AH02056	Aah02056 Streptoco
434	14.8	70.5	2184	8	ABT20274	Abt20274 Aspergill
435	14.8	70.5	2251	4	AAF74276	Aaf74276 Tobacco c
436	14.8	70.5	2393	6	ABL01573	Ab101573 Human sec
437	14.8	70.5	2481	13	ADT05248	Adt05248 Haemophil
438	14.8	70.5	2484	5	AAS85905	Aas85905 DNA encod
439	14.8	70.5	2591	4	AAH16224	Aah16224 Human cDN
440	14.8	70.5	2591	12	ADL22885	Adl22885 Human MP2
441	14.8	70.5	2591	13	ADR14082	Adr14082 Human NF-
442	14.8	70.5	2610	3	AAS233371	Aas233371 Human sec
443	14.8	70.5	2625	12	ADP98558	Adp98558 C. albica
444	14.8	70.5	2663	5	ABA14610	Abal14610 Human ner
445	14.8	70.5	2760	13	ADS96659	Adsg96659 Drosophil
446	14.8	70.5	2799	8	ADP69738	Adp69738 Rice gene
447	14.8	70.5	3064	8	ABZ23869	Abz23869 Mouse ONS
448	14.8	70.5	3064	12	ADI32347	Adi32347 Mouse OAS
449	14.8	70.5	3132	13	ADX30458	Adx30458 Plant ful
450	14.8	70.5	3149	8	ABT17864	Abt17864 Aspergill
451	14.8	70.5	3351	10	ADN75282	Adn75282 Thale cre
452	14.8	70.5	3351	12	ADN72166	Adn72166 Thale cre
453	14.8	70.5	3487	4	ABL09071	Ab109071 Drosophil
454	14.8	70.5	3573	4	ABL05120	Ab105120 Drosophil
455	14.8	70.5	3809	4	AAF24498	Aaf24498 Human PG-
456	14.8	70.5	3809	6	ABQ81803	Abq81803 Human PG-
457	14.8	70.5	4122	6	ABN66743	Abn66743 Streptoco
458	14.8	70.5	4170	3	AAZ99468	Aaz99468 Arabidops
459	14.8	70.5	4170	6	AAD40258	Aad40258 A. thalia
460	14.8	70.5	4171	5	AAS77682	Aas77682 DNA encod
461	14.8	70.5	4171	13	ADS11565	Adsg11565 Human the
462	14.8	70.5	4184	8	ABT19678	Abt19678 Aspergill
463	14.8	70.5	4205	5	AAS88708	Aas88708 DNA encod
464	14.8	70.5	4205	5	ADT15470	Adt15470 Plant cDN
465	14.8	70.5	4844	13	ADT15470	Adt15470 Plant cDN
466	14.8	70.5	4941	4	ABL19103	Ab119103 Drosophil
467	14.8	70.5	5121	4	ABL29055	Ab129055 Drosophil
468	14.8	70.5	6060	4	ABL09070	Ab109070 Drosophil
469	14.8	70.5	6501	12	ADM47918	Adm47918 Polynucle
470	14.8	70.5	6599	12	ADQ24296	Adq24296 Human sof
471	14.8	70.5	6941	13	ADR52921	Adr52921 Drug ther
472	14.8	70.5	7622	5	AAS91166	Aas91166 DNA encod
473	14.8	70.5	7848	13	ADR84458	Adr84458 Aspergill
474	14.8	70.5	10206	8	ADS5182	Adsg5182 Megathura
475	14.8	70.5	10263	8	AAD55184	Aad55184 Megathura
476	14.8	70.5	10472	12	ADJ12647	Adj12647 DNA fragm
477	14.8	70.5	10495	8	AAD55185	Aad55185 Megathura
478	14.8	70.5	11529	14	AEA15412	Aea15412 Human pol
479	14.8	70.5	14977	4	AAS59602	Aas59602 Propionib
480	14.8	70.5	16106	4	ACF64531	Acf64531 Propionib
481	14.8	70.5	16161	4	AAK83468	Aak83468 Human imm
482	14.8	70.5	23620	4	AAK83469	Aak83469 Human imm
483	14.8	70.5	23620	4	ABL19102	Ab119102 Drosophil
484	14.8	70.5	23620	4	ABL29054	Ab129054 Drosophil
485	14.8	70.5	27733	14	ADV96522	Adv96522 Coronavir
486	14.8	70.5	28180	4	AAK68939	Aak68939 Human imm
487	14.8	70.5	31865	4	AAK85330	Aak85330 Human imm
488	14.8	70.5	31865	4	AAK85331	Aak85331 Human imm
489	14.8	70.5	53000	8	AAD55325	Aad55325 Human pro
490	14.8	70.5	57652	12	ADQ59398	Adq59398 Continnuation (4 of
491	14.8	70.5	63411	12	ADQ97081	Adq97081 Mouse can
492	14.8	70.5	85814	13	ADT05644	Adt05644 Haemophil
493	14.8	70.5	89378	12	ADN47591	Adn47591 Continnuation (21 o
494	14.8	70.5	89378	12	ADN47209	Adn47209 Continnuation (21 o
495	14.8	70.5	89378	12	ADN47960	Adn47960 Continnuation (21 o
496	14.8	70.5	95050	14	ADX98574	Adx98574 Human LOC
497	14.8	70.5	96596	9	ADA02564	Ada02564 Human RAS
498	14.8	70.5	96596	10	ADB72302	Adb72302 Human RAS
499	14.8	70.5	96596	10	ADE95812	Ade95812 Human RAS
500	14.8	70.5	100596	14	AEA61182	Aea61182 Human SI
501	14.8	70.5	110000	2	AAT42063	Continuation (5 of

ALIGNMENTS

RESULT 1

ABX98502/c

ID ABX98502 standard; cDNA; 521 BP.

XX AC ABX98502;

XX DT 16-MAY-2003 (first entry)

XX DE Rice albumin expressed sequence tag (EST) #43.

XX KW Rice leaf; expressed sequence tag; EST; constituted biochip;
XX KW EST technology; albumin; gene cloning; crop characteristic; ss;
XX KW heterosis; transgenic agricultural product; herbicide; pesticide.

XX OS Oryza sp.

XX PN CN1364919-A.

XX PD 21-AUG-2002.

XX PF 31-OCT-2001; 2001CN-00135863.

XX PR 31-OCT-2001; 2001CN-00135863.

XX PA (UYZH-) UNIV ZHEJIANG.

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2594.31 Seconds
(without alignments)
378.725 Million cell updates/sec

Title: US-10-805-973-2

Perfect score: 21
Sequence: 1 gtagacaagaactgcatg 21

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

- EST:*
- 1: gb_est1.*
 - 2: gb_est2.*
 - 3: gb_est3.*
 - 4: gb_est4.*
 - 5: gb_est5.*
 - 6: gb_est6.*
 - 7: gb_est7.*
 - 8: gb_est8.*
 - 9: gb_est9.*
 - 10: gb_est10.*
 - 11: gb_est11.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	367	5	B0762109 EBPi01 SQ
2	21	100.0	443	1	AU089907
3	21	100.0	462	8	CX629678
4	21	100.0	515	6	CX629678
5	21	100.0	526	1	AJ610886
6	21	100.0	528	1	AV942818
7	21	100.0	543	5	BU985874
8	21	100.0	568	5	CA001228
9	21	100.0	568	5	CA001528
10	21	100.0	613	7	CA0010201
11	21	100.0	615	7	CV057250
12	21	100.0	620	3	BJ468205
13	21	100.0	664	2	BG905270
14	21	100.0	670	3	BJ296872
15	21	100.0	678	1	AV945607
16	21	100.0	696	3	BM137990
17	21	100.0	700	8	DN186674
18	21	100.0	721	6	CD453275
19	21	100.0	727	3	BJ220643
20	21	100.0	879	7	CK155817
21	21	100.0	879	7	CK156269
22	21	100.0	892	8	DR732145

23	21	100.0	894	7	CK157744
24	21	100.0	1147	7	CK166638
25	21	100.0	1149	7	CK167615
26	21	100.0	1160	7	CK167307
27	21	100.0	1198	7	CK168204
28	19.4	92.4	227	3	BI804666
29	19.4	92.4	236	8	D43481
30	19.4	92.4	521	3	BI813072
31	19.4	92.4	554	7	CK036599
32	19.4	92.4	570	7	CN820002
33	19.4	92.4	601	7	CK040671
34	19.4	92.4	613	7	CK037714
35	19.4	92.4	619	1	AU056467
36	19.4	92.4	706	1	AU162002
37	19.4	92.4	802	11	CR169181
38	19.4	92.4	896	8	DR732290
39	18	85.7	438	1	AU089946
40	18	85.7	485	6	CA721426
41	18	85.7	575	5	BU881357
42	17.8	84.8	257	9	AZ845312
43	17.8	84.8	423	9	AQ040966
44	17.8	84.8	472	8	DN363022
45	17.8	84.8	548	10	CL900989
46	17.8	84.8	563	10	CZ030124
47	17.8	84.8	686	3	BJ712835
48	17.8	84.8	692	10	CW026828
49	17.8	84.8	708	6	CB630252
50	17.8	84.8	711	3	BJ713171
51	17.8	84.8	735	3	BJ724276
52	17.8	84.8	735	3	BU899757
53	17.8	84.8	737	10	CE285472
54	17.8	84.8	742	11	CR258120
55	17.8	84.8	753	3	BJ722298
56	17.8	84.8	754	9	BH312648
57	17.8	84.8	776	11	CR268894
58	17.8	84.8	780	3	BJ725257
59	17.8	84.8	807	10	BU968652
60	17.8	84.8	825	10	DU034358
61	17.8	84.8	845	10	DU061435
62	17.8	84.8	850	11	CR202110
63	17.8	84.8	855	10	CZ671547
64	17.8	84.8	877	10	CZ953684
65	17.8	84.8	944	10	DU025044
66	17.4	82.9	321	6	CA335557
67	17.4	82.9	345	9	BH001628
68	17.4	82.9	346	9	B33768
69	17.4	82.9	381	9	BZ669011
70	17.4	82.9	446	5	BQ474077
71	17.4	82.9	452	1	A1018687
72	17.4	82.9	457	3	BJ237656
73	17.4	82.9	538	9	BZ793375
74	17.4	82.9	575	10	CE491452
75	17.4	82.9	592	11	CR216351
76	17.4	82.9	595	11	CR236914
77	17.4	82.9	617	8	CB656902
78	17.4	82.9	742	6	CK933161
79	17.4	82.9	764	2	BE566775
80	17.4	82.9	772	5	EX113136
81	17.4	82.9	804	8	CK933340
82	17.4	82.9	810	9	CC909282
83	17.4	82.9	819	8	CK361640
84	17.4	82.9	857	8	CK957712
85	17.4	82.9	871	8	DN906145
86	17.4	82.9	881	9	CC388115
87	17.4	82.9	891	10	CL998111
88	17.4	82.9	906	7	CK158704
89	17.4	82.9	928	9	CC015149
90	17.4	82.9	972	10	CL990547
91	17.4	82.9	1036	1	CC263187
92	17.4	82.9	1078	1	AL510232
93	17.4	82.9	1717	9	BH110556
94	17.4	82.9	755	2	BG824551
95	17.4	82.9	797	8	DN032069

102(4) ?

96	17	81.0	831	8	DN023927	DN023927 JGI_CABR4	169	16.8	80.0	813	2	BG536525	BG536525 602564931
97	17	81.0	843	8	DN069207	DN069207 JGI_CABD5	170	16.8	80.0	814	8	DR834421	DR834421 JGI_CABCS
c 98	17	81.0	904	8	DN069208	DN069208 JGI_CABD5	c 171	16.8	80.0	816	8	DR834420	DR834420 JGI_CABCS
99	17	81.0	907	6	CA981862	CA981862 AGENCOURT	c 172	16.8	80.0	818	10	CL097610	CL097610 ISB1-30A2
100	17	81.0	975	2	BG545488	BG545488 602572724	c 173	16.8	80.0	821	9	CC913531	CC913531 t079c24ba
c 101	16.8	80.0	145	2	BQ004178	BQ004178 CM0-BN010	c 174	16.8	80.0	833	9	CA496525	CA496525 CH240_332
c 102	16.8	80.0	160	9	CA423917	CA423917 PUPPU13TB	175	16.8	80.0	836	11	CT010944	CT010944 KB-HI18M0
c 103	16.8	80.0	265	2	BF987596	BF987596 CM3-GN010	176	16.8	80.0	841	2	BF027496	BF027496 601671736
c 104	16.8	80.0	266	2	B1055140	B1055140 PM0-GN034	177	16.8	80.0	849	5	BW401020	BW401020 BW401020
c 105	16.8	80.0	274	10	CL270823	CL270823 Ggal_148	178	16.8	80.0	849	10	DU075448	DU075448 66261 Tom
c 106	16.8	80.0	279	2	BB573187	BB573187 BB573187	c 179	16.8	80.0	850	11	CR065983	CR065983 Reverse s
c 107	16.8	80.0	282	1	BQ011324	BQ011324 BB011324	180	16.8	80.0	861	10	CW711081	CW711081 AIAA-aab3
c 108	16.8	80.0	308	10	CW837750	CW837750 GT1737.Ds	c 181	16.8	80.0	861	10	DU095372	DU095372 221334 To
c 109	16.8	80.0	316	9	C5513218	C5513218 CH240_357	c 182	16.8	80.0	864	11	CR810039	CR810039 GROAAA33B
c 110	16.8	80.0	324	2	BF747781	BF747781 RC4-BT083	c 183	16.8	80.0	867	10	CL765185	CL765185 OR_BB013
c 111	16.8	80.0	338	11	FR0019156	FR0019156 F.rubripe	c 184	16.8	80.0	873	9	BZ786866	BZ786866 PUGY75TD
c 112	16.8	80.0	370	1	AL893024	AL893024 AL893024	c 185	16.8	80.0	874	11	CR259328	CR259328 Reverse s
c 113	16.8	80.0	418	1	A1243115	A1243115 qb26G01.x	186	16.8	80.0	884	8	CK673970	CK673970 UCRCS10_3
c 114	16.8	80.0	420	5	BW454521	BW454521 BW454521	c 187	16.8	80.0	890	10	CL428351	CL428351 ZMMBB044
c 115	16.8	80.0	429	2	B8731825	B8731825 BB731825	c 188	16.8	80.0	922	10	CZ503215	CZ503215 GWM2-18B2
c 116	16.8	80.0	436	3	BJ653722	BJ653722 BJ653722	c 189	16.8	80.0	936	10	CL142800	CL142800 ISB1-120N
c 117	16.8	80.0	449	9	AQ002928	AQ002928 CIT978SK-	c 190	16.8	80.0	948	10	DU056304	DU056304 94825 Tom
c 118	16.8	80.0	453	9	AQ0109660	AQ0109660 CIT-HSP-2	c 192	16.8	80.0	961	5	BY716716	BY716716 BY716716
c 119	16.8	80.0	474	1	AA481790	AA481790 aa93d05.s	c 193	16.8	80.0	979	10	CL115496	CL115496 ISB1-61L2
c 120	16.8	80.0	477	9	AQ075126	AQ075126 CIT-HSP-2	c 194	16.8	80.0	1001	10	CG899903	CG899903 ZMMBB050
c 121	16.8	80.0	489	1	AA691944	AA691944 vt06C05.r	c 195	16.8	80.0	1038	8	DN676377	DN676377 CFN92-B10
c 122	16.8	80.0	494	5	BX102278	BX102278 BX102278	c 196	16.8	80.0	1078	3	BM455088	BM455088 AGENCOURT
c 123	16.8	80.0	500	5	BX102278	BX102278 BX100327	c 197	16.8	80.0	1107	9	CC292793	CC292793 CH261-174
c 124	16.8	80.0	520	9	AQ877289	AQ877289 HS_2142_B	c 198	16.8	80.0	1324	4	AK052943	AK052943 Mus muscu
c 125	16.8	80.0	521	8	DT005145	DT005145 VVG021B08	c 199	16.8	80.0	1353	10	AJ859319	AJ859319 Brassica
c 126	16.8	80.0	524	9	AQ695857	AQ695857 HS_2160_A	c 200	16.8	80.0	1580	4	AK017032	AK017032 Mus muscu
c 127	16.8	80.0	525	9	AZ409412	AZ409412 LM0181C06	c 201	16.4	78.1	1668	4	AK017032	AK017032 Mus muscu
c 128	16.8	80.0	531	1	AW850951	AW850951 IL3-CT022	c 202	16.4	78.1	178	7	CO831131	CO831131 LM_GB5_01
c 129	16.8	80.0	541	5	BX524523	BX524523 BX524523	c 203	16.4	78.1	185	10	CE853512	CE853512 tigr-ges-
c 130	16.8	80.0	558	11	DE107584	DE107584 Oryzias l	c 204	16.4	78.1	219	9	AZ515737	AZ515737 CIT-HSP-2
c 131	16.8	80.0	559	9	B9291011	B9291011 CH240_118	c 205	16.4	78.1	232	1	AV150487	AV150487 AV150487
c 132	16.8	80.0	572	1	AJ755186	AJ755186 AJ755186	c 206	16.4	78.1	275	6	CB220190	CB220190 LAB018E12
c 133	16.8	80.0	574	11	FR0019126	FR0019126 F.rubripe	c 207	16.4	78.1	276	2	BI127961	BI127961 G068P90Y
c 134	16.8	80.0	582	3	BJ665728	BJ665728 BJ665728	c 208	16.4	78.1	296	2	BI131592	BI131592 G123P02Y
c 135	16.8	80.0	582	11	FR0019152	FR0019152 F.rubripe	c 209	16.4	78.1	298	2	B585630	B585630 BB585630
c 136	16.8	80.0	592	1	AV705610	AV705610 AV705610	c 210	16.4	78.1	327	10	AG197253	AG197253 Pan trogl
c 137	16.8	80.0	610	10	CW550911	CW550911 OA_ABA006	c 211	16.4	78.1	339	1	AA780851	AA780851 ac68g11.s
c 138	16.8	80.0	634	9	B6131198	B6131198 601452194	c 212	16.4	78.1	354	7	CK339708	CK339708 CO862D11-
c 139	16.8	80.0	639	2	B6131198	B6131198 601452194	c 213	16.4	78.1	358	10	CW095703	CW095703 104_461_1
c 140	16.8	80.0	645	2	B8521448	B8521448 BB521448	c 214	16.4	78.1	361	5	B2044487	B2044487 604153081
c 141	16.8	80.0	645	5	BQ637465	BQ637465 heid011.y	c 215	16.4	78.1	361	9	BZ344948	BZ344948 hr42e07.b
c 142	16.8	80.0	654	8	DN051468	DN051468 JGI_CABAG	c 216	16.4	78.1	362	10	CW327846	CW327846 104_823_1
c 143	16.8	80.0	654	10	CE678867	CE678867 tigr-ges-	c 217	16.4	78.1	368	10	CW046639	CW046639 104_284_1
c 144	16.8	80.0	659	10	AG036808	AG036808 Pan trogl	c 218	16.4	78.1	370	5	BY664399	BY664399 BY664399
c 145	16.8	80.0	663	6	CA175278	CA175278 SCJFST101	c 219	16.4	78.1	375	2	BI127914	BI127914 G068P07Y
c 146	16.8	80.0	667	9	BZ705564	BZ705564 PUEMO91TD	c 220	16.4	78.1	382	1	AI597560	AI597560 vd80e08.y
c 147	16.8	80.0	670	11	CR882495	CR882495 Sus scrof	c 221	16.4	78.1	402	5	B0889736	B0889736 P02AH10_P
c 148	16.8	80.0	673	11	DE066376	DE066376 Oryzias l	c 222	16.4	78.1	409	9	BZ422538	BZ422538 id55b03.b
c 149	16.8	80.0	673	8	DN051469	DN051469 JGI_CABAG	c 223	16.4	78.1	411	6	CD472946	CD472946 nad03-30m
c 150	16.8	80.0	675	3	BJ668163	BJ668163 BJ668163	c 224	16.4	78.1	413	9	B30775	B30775 HS-1003-A1-
c 151	16.8	80.0	682	5	BW384822	BW384822 BW384822	c 225	16.4	78.1	416	10	CW055284	CW055284 104_296_1
c 152	16.8	80.0	686	7	CO357837	CO357837 DR_AIE_OR	c 226	16.4	78.1	416	10	CW500890	CW500890 feb5001f2
c 153	16.8	80.0	688	7	CC717526	CC717526 OGRAP34TH	c 227	16.4	78.1	419	8	D53947	D53947 HWM121A08B
c 154	16.8	80.0	696	7	CN189036	CN189036 UCRCS06_0	c 228	16.4	78.1	424	1	AA403929	AA403929 vd80e08.r
c 155	16.8	80.0	712	5	BW416400	BW416400 BW416400	c 229	16.4	78.1	432	5	AQ768068	AQ768068 HS_3097_B
c 156	16.8	80.0	713	9	BH743968	BH743968 gt29f07.b	c 230	16.4	78.1	435	9	B0820545	B0820545 UB11CPD03
c 157	16.8	80.0	715	5	BW412995	BW412995 BW412995	c 231	16.4	78.1	444	1	AI854454	AI854454 UI-M-BH0-
c 158	16.8	80.0	731	7	CN840556	CN840556 AGENCOURT	c 232	16.4	78.1	444	10	CW482822	CW482822 feb001f2
c 159	16.8	80.0	736	9	CC909967	CC909967 t057121ba	c 233	16.4	78.1	449	10	CL153913	CL153913 104_338_1
c 160	16.8	80.0	741	11	CNS06GUD	CNS06GUD T7 end of	c 234	16.4	78.1	457	5	B0865114	B0865114 S049C07_P
c 161	16.8	80.0	755	10	CG084379	CG084379 PUBDK58TD	c 235	16.4	78.1	467	10	CW043279	CW043279 104_278_1
c 162	16.8	80.0	759	10	AG453996	AG453996 Mus muscu	c 236	16.4	78.1	474	10	CE264694	CE264694 tigr-ges-
c 163	16.8	80.0	768	10	CW608839	CW608839 OA_ABA014	c 237	16.4	78.1	475	5	B0821388	B0821388 UB22CP09
c 164	16.8	80.0	770	5	BW498502	BW498502 BW498502	c 238	16.4	78.1	477	9	AQ192398	AQ192398 HS_2251_A
c 165	16.8	80.0	771	5	BW424949	BW424949 BW424949	c 239	16.4	78.1	477	10	CW428321	CW428321 f8bb001f1
c 166	16.8	80.0	792	10	CL097692	CL097692 ISB1-30C2	c 240	16.4	78.1	480	10	CW792569	CW792569 SP_Ba009
c 167	16.8	80.0	796	2	B1085530	B1085530 602870241	c 241	16.4	78.1	485	2	BE862636	BE862636 UI-M-BH0-
c 168	16.8	80.0	798	10	DU095422	DU095422 221396 To		16.4	78.1	493	10	CL705385	CL705385 SP_BB004

C 242	16.4	78.1	501	9	AZ155819 SP_0042 B	AZ155819 SP_0042 B	C 315	16.4	78.1	688	10	CL698816	CL698816 SP_Ba003
C 243	16.4	78.1	505	8	AX247061 1298907 N	AX247061 1298907 N	C 316	16.4	78.1	690	2	BB277173	BB277173 BB277173
C 244	16.4	78.1	509	1	AA913977 VY91C03.X	AA913977 VY91C03.X	C 317	16.4	78.1	690	3	BM194904	BM194904 10703A05-
C 245	16.4	78.1	511	1	AW989011 UF22e08.Y	AW989011 UF22e08.Y	C 318	16.4	78.1	693	10	CW308481	CW308481 104_797_1
C 246	16.4	78.1	513	1	AI666430 UE84f10.X	AI666430 UE84f10.X	C 319	16.4	78.1	693	10	CW308481	CW308481 SP_Ba007
C 247	16.4	78.1	517	10	CL176622 104_383_1	CL176622 104_383_1	C 320	16.4	78.1	694	10	CW243382	CW243382 104_703_1
C 248	16.4	78.1	520	10	CW055241 104_296_1	CW055241 104_296_1	C 321	16.4	78.1	699	10	CZ747866	CZ747866 OC_Ba009
C 249	16.4	78.1	524	9	AQ369103 HS_5022 B	AQ369103 HS_5022 B	C 322	16.4	78.1	700	10	CW137995	CW137995 104_525_1
C 250	16.4	78.1	527	10	CW086495 104_430_1	CW086495 104_430_1	C 323	16.4	78.1	702	5	BW238767	BW238767 603323854
C 251	16.4	78.1	534	5	CA049401 ssa1srkc0	CA049401 ssa1srkc0	C 324	16.4	78.1	702	10	CW132127	CW132127 104_515_1
C 252	16.4	78.1	537	3	BN250961 K0857F10-	BN250961 K0857F10-	C 325	16.4	78.1	702	10	CW242645	CW242645 104_702_1
C 253	16.4	78.1	537	10	CW049574 104_288_1	CW049574 104_288_1	C 326	16.4	78.1	704	10	CW142153	CW142153 104_533_1
C 254	16.4	78.1	542	1	AJ774502 AJ774502	AJ774502 AJ774502	C 327	16.4	78.1	706	8	CX032806	CX032806 1345084 N
C 255	16.4	78.1	568	7	CK339723 C0863E01-	CK339723 C0863E01-	C 328	16.4	78.1	707	10	CW197058	CW197058 104_621_1
C 256	16.4	78.1	568	8	DN140503 SGP266540	DN140503 SGP266540	C 329	16.4	78.1	707	10	CW308482	CW308482 104_797_1
C 257	16.4	78.1	580	10	CE429516 tigr-g88-	CE429516 tigr-g88-	C 330	16.4	78.1	716	7	CK312413	CK312413 SB0201182
C 258	16.4	78.1	581	10	CW262733 104_730_1	CW262733 104_730_1	C 331	16.4	78.1	720	10	CW359806	CW359806 fbb001f0
C 259	16.4	78.1	588	7	CK339618 C0857D01-	CK339618 C0857D01-	C 332	16.4	78.1	720	10	CL179297	CL179297 104_388_1
C 260	16.4	78.1	588	10	CW139126 104_529_1	CW139126 104_529_1	C 333	16.4	78.1	721	10	CW483219	CW483219 fbb001f2
C 261	16.4	78.1	588	10	CW337885 fbb001f0	CW337885 fbb001f0	C 334	16.4	78.1	722	7	CK330370	CK330370 H8210D08-
C 262	16.4	78.1	593	10	CW785552 SP_Ba001	CW785552 SP_Ba001	C 335	16.4	78.1	724	10	CW339774	CW339774 104_840_1
C 263	16.4	78.1	593	10	CW023847 104_163_1	CW023847 104_163_1	C 336	16.4	78.1	725	10	CW205834	CW205834 104_634_1
C 264	16.4	78.1	594	10	CW114282 104_489_1	CW114282 104_489_1	C 337	16.4	78.1	726	10	CW462523	CW462523 fbb001f2
C 265	16.4	78.1	595	10	CW140203 104_530_1	CW140203 104_530_1	C 338	16.4	78.1	730	10	CW356430	CW356430 fbb001f0
C 266	16.4	78.1	603	9	AZ105135 RPCT-23-3	AZ105135 RPCT-23-3	C 339	16.4	78.1	733	10	CW086496	CW086496 104_430_1
C 267	16.4	78.1	604	3	BP921681 BP921681	BP921681 BP921681	C 340	16.4	78.1	733	10	CW474639	CW474639 fbb001f2
C 268	16.4	78.1	606	10	CW787700 SP_Ba003	CW787700 SP_Ba003	C 341	16.4	78.1	735	10	CW182595	CW182595 104_598_1
C 269	16.4	78.1	611	7	CK106168 UB11CPD03	CK106168 UB11CPD03	C 342	16.4	78.1	743	8	CX448092	CX448092 JGI_XZG26
C 270	16.4	78.1	611	10	CW087870 104_432_1	CW087870 104_432_1	C 343	16.4	78.1	750	10	CW422520	CW422520 fbb001f1
C 271	16.4	78.1	614	10	CW339775 104_840_1	CW339775 104_840_1	C 344	16.4	78.1	750	10	CW429701	CW429701 fbb001f1
C 272	16.4	78.1	616	10	CW139127 104_529_1	CW139127 104_529_1	C 345	16.4	78.1	753	10	CW467538	CW467538 fbb001f2
C 273	16.4	78.1	618	10	CW326332 104_821_1	CW326332 104_821_1	C 346	16.4	78.1	756	5	BW254769	BW254769 603742807
C 274	16.4	78.1	619	1	AW260838 EQUK0101	AW260838 EQUK0101	C 347	16.4	78.1	757	10	CL173644	CL173644 104_377_1
C 275	16.4	78.1	619	10	CW330953 104_828_1	CW330953 104_828_1	C 348	16.4	78.1	760	5	BW218910	BW218910 60375548
C 276	16.4	78.1	620	6	CA826034 R7E06.tw	CA826034 R7E06.tw	C 349	16.4	78.1	760	8	DN069665	DN069665 JGI_CABD5
C 277	16.4	78.1	621	10	CL703669 SP_B0000	CL703669 SP_B0000	C 350	16.4	78.1	763	10	CW075555	CW075555 104_359_1
C 278	16.4	78.1	628	9	BZ693683 SP_Ba003	BZ693683 SP_Ba003	C 351	16.4	78.1	763	10	CW193851	CW193851 104_616_1
C 279	16.4	78.1	632	10	CW343209 104_845_1	CW343209 104_845_1	C 352	16.4	78.1	764	10	CL166197	CL166197 104_362_1
C 280	16.4	78.1	632	10	CL860785 OR_CBa009	CL860785 OR_CBa009	C 353	16.4	78.1	764	10	CL705675	CL705675 SP_B0004
C 281	16.4	78.1	633	9	BZ691817 SP_Ba001	BZ691817 SP_Ba001	C 354	16.4	78.1	765	5	BW336357	BW336357 603870537
C 282	16.4	78.1	638	5	BU110540 603128174	BU110540 603128174	C 355	16.4	78.1	771	5	EX868345	EX868345 BX868345
C 283	16.4	78.1	639	2	BE299834 600944614	BE299834 600944614	C 356	16.4	78.1	774	8	DR848474	DR848474 JGI_CABE1
C 284	16.4	78.1	641	10	CW789630 SP_Ba005	CW789630 SP_Ba005	C 357	16.4	78.1	776	7	CK097421	CK097421 UB50DP02
C 285	16.4	78.1	649	7	CK338734 C0806E02-	CK338734 C0806E02-	C 358	16.4	78.1	784	8	DR530376	DR530376 WS02732.C
C 286	16.4	78.1	649	7	CK969565 4085200 B	CK969565 4085200 B	C 359	16.4	78.1	789	10	CW077058	CW077058 104_377_1
C 287	16.4	78.1	650	10	CW183926 104_600_1	CW183926 104_600_1	C 360	16.4	78.1	790	2	BI106292	BI106292 602890604
C 288	16.4	78.1	650	10	CW342957 104_845_1	CW342957 104_845_1	C 361	16.4	78.1	793	5	BW261141	BW261141 603504155
C 289	16.4	78.1	651	10	CW140202 104_530_1	CW140202 104_530_1	C 362	16.4	78.1	795	10	CL191615	CL191615 104_410_1
C 290	16.4	78.1	653	9	BH001630 BMBAC01F1	BH001630 BMBAC01F1	C 363	16.4	78.1	796	7	CK313291	CK313291 SB02037A2
C 291	16.4	78.1	654	10	CW175872 104_588_1	CW175872 104_588_1	C 364	16.4	78.1	796	8	CX346589	CX346589 JGI_XZT43
C 292	16.4	78.1	655	6	CA370991 651334 NC	CA370991 651334 NC	C 365	16.4	78.1	805	9	BZ629074	BZ629074 ih64a08.g
C 293	16.4	78.1	655	10	CL166198 104_362_1	CL166198 104_362_1	C 366	16.4	78.1	811	5	BW372431	BW372431 603589244
C 294	16.4	78.1	659	10	CW173007 104_584_1	CW173007 104_584_1	C 367	16.4	78.1	811	7	CN521145	CN521145 Q00105.B3
C 295	16.4	78.1	659	9	AQ689569 nbxb0079N	AQ689569 nbxb0079N	C 368	16.4	78.1	814	8	CX448091	CX448091 JGI_XZG26
C 296	16.4	78.1	663	10	CW351302 fbb001f0	CW351302 fbb001f0	C 369	16.4	78.1	818	5	BW250254	BW250254 603404165
C 297	16.4	78.1	663	10	CL826416 OR_CBa004	CL826416 OR_CBa004	C 370	16.4	78.1	818	5	BU324621	BU324621 603490279
C 298	16.4	78.1	665	10	CF731130 UR-M-CZO-	CF731130 UR-M-CZO-	C 371	16.4	78.1	820	5	BU382577	BU382577 603859103
C 299	16.4	78.1	667	6	CW406824 fbb001f1	CW406824 fbb001f1	C 372	16.4	78.1	820	7	CK314729	CK314729 SB02040A2
C 300	16.4	78.1	667	10	CW293966 104_774_1	CW293966 104_774_1	C 373	16.4	78.1	829	7	CN757922	CN757922 ID0AA20D
C 301	16.4	78.1	668	10	BZ343013 h032h04.b	BZ343013 h032h04.b	C 374	16.4	78.1	830	9	DR848473	DR848473 JGI_CABE1
C 302	16.4	78.1	669	5	BU266334 603508524	BU266334 603508524	C 375	16.4	78.1	843	8	BH687291	BH687291 BOMC064TF
C 303	16.4	78.1	675	10	CW484524 fbb001f2	CW484524 fbb001f2	C 376	16.4	78.1	849	10	AG853554	AG853554 Oryza sat
C 304	16.4	78.1	676	6	CD473260 nad03-12m	CD473260 nad03-12m	C 377	16.4	78.1	859	10	CL204731	CL204731 ZMWBB056
C 305	16.4	78.1	676	10	CW244264 104_705_1	CW244264 104_705_1	C 378	16.4	78.1	861	8	DN069666	DN069666 JGI_CABD5
C 306	16.4	78.1	682	7	CK977958 4109423 B	CK977958 4109423 B	C 379	16.4	78.1	861	10	CW467537	CW467537 fbb001f2
C 307	16.4	78.1	683	10	CW373886 fbb001f0	CW373886 fbb001f0	C 380	16.4	78.1	863	5	BU423202	BU423202 60323482
C 308	16.4	78.1	684	9	BZ343013 h032h04.b	BZ343013 h032h04.b	C 381	16.4	78.1	871	7	CK096842	CK096842 UB29DP08
C 309	16.4	78.1	684	10	CW117393 104_493_1	CW117393 104_493_1	C 382	16.4	78.1	871	8	DN100055	DN100055 JGI_CABE8
C 310	16.4	78.1	684	10	CW247365 104_708_1	CW247365 104_708_1	C 383	16.4	78.1	872	5	BU928956	BU928956 AGENECOURT
C 311	16.4	78.1	684	10	CW498109 fbb001f2	CW498109 fbb001f2	C 384	16.4	78.1	872	10	CL769134	CL769134 OR_BBa014
C 312	16.4	78.1	684	10	CL179298 104_388_1	CL179298 104_388_1	C 385	16.4	78.1	879	10	CL009583	CL009583 ZMWBB054
C 313	16.4	78.1	685	10	CW342958 104_845_1	CW342958 104_845_1	C 386	16.4	78.1	882	2	BF107971	BF107971 601824010
C 314	16.4	78.1	688	10	CW474638 fbb001f2	CW474638 fbb001f2	C 387	16.4	78.1	885	7	CK096344	CK096344 UB11CPD03

388	16.4	78.1	893	10	BX180149	BX180149	Danio rer
389	16.4	78.1	924	8	DN100056	JGI_CABE8	
390	16.4	78.1	929	10	CL502263	SAIL_70_F	
391	16.4	78.1	937	5	B0368176	603787104	
392	16.4	78.1	949	9	CC331202	OGUBM67TH	
393	16.4	78.1	1079	10	CZ962620	109842121	
394	16.4	78.1	1237	9	B2697076	SP_Ba009	
395	16.4	78.1	3049	4	AK044238	Mus_muscu	
396	16.2	77.1	136	9	BH015799	TDGCF01TH	
397	16.2	77.1	208	10	CE634573	tigr-gss-	
398	16.2	77.1	240	9	CC482845	CH240_311	
399	16.2	77.1	265	9	AZ886615	RPCI-23-1	
400	16.2	77.1	265	10	CE389947	tigr-gss-	
401	16.2	77.1	308	8	W15810	mb51d05_x1	
402	16.2	77.1	315	9	BZ689162	PUEBRI3TD	
403	16.2	77.1	320	9	AQ007600	CIT-HSP-2	
404	16.2	77.1	334	1	AW742727	up52a08.x	
405	16.2	77.1	339	5	BX638258	BX638258	
406	16.2	77.1	341	8	DN986272	MSU_28R_2	
407	16.2	77.1	349	1	AA172437	mt03a09_x	
408	16.2	77.1	356	1	AW044081	wy68c05.x	
409	16.2	77.1	365	10	AL759996	Arabidops	
410	16.2	77.1	373	9	AQ075035	CIT-HSP-2	
411	16.2	77.1	376	5	BY415867	BY415867	
412	16.2	77.1	383	10	AL939975	Arabidops	
413	16.2	77.1	387	5	BY660896	BY660896	
414	16.2	77.1	389	9	AQ786034	HS_3082_B	
415	16.2	77.1	394	5	BY622334	BY622334	
416	16.2	77.1	394	9	B38479	HS-1047-B2-	
417	16.2	77.1	403	10	CL445441	ZMMBB046	
418	16.2	77.1	406	2	BB712193	BB712193	
419	16.2	77.1	413	2	BE854324	ux31d12.x	
420	16.2	77.1	415	10	CU296991	ZMMBB000	
421	16.2	77.1	417	5	BY455892	BY455892	
422	16.2	77.1	418	5	BM571717	BM571717	
423	16.2	77.1	418	5	BY458756	BY458756	
424	16.2	77.1	418	5	BY616227	BY616227	
425	16.2	77.1	419	5	BY616384	BY616384	
426	16.2	77.1	419	5	BY620803	BY620803	
427	16.2	77.1	420	5	BY648843	BY648843	
428	16.2	77.1	421	7	BB783461	BB783461	
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456	16.2	77.1	515	7	CR893052	SGP153123	
457	16.2	77.1	516	3	BJ204254	BJ204254	
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 72.568 Seconds
(without alignments)
514.397 Million cell updates/sec

Title: US-10-805-973-2

Perfect score: 21

Sequence: 1 gtaggacaagaactgcatg 21

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

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7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*

8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*

9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	19.4	92.4	2279	3	US-10-258-842-4
C 2	19.4	92.4	2301	3	US-10-258-842-2
C 3	17.8	84.8	601	3	US-09-949-002-2957
C 4	17.8	84.8	601	3	US-09-949-002-9352
C 5	17.8	84.8	15595	3	US-09-949-002-9352
C 6	17.4	82.9	12827	3	US-09-949-002-816
C 7	16.8	80.0	601	3	US-09-949-016-15541
C 8	16.8	80.0	601	3	US-09-949-016-23153
C 9	16.8	80.0	601	3	US-09-949-016-23154
C 10	16.8	80.0	601	3	US-09-949-016-204380
C 11	16.8	80.0	13193	3	US-09-949-016-204381
C 12	16.8	80.0	14079	3	US-09-949-016-17515
C 13	16.8	80.0	113060	3	US-09-949-016-11933
C 14	16.8	80.0	113060	3	US-09-949-016-14773
C 15	16.4	78.1	12122	3	US-09-949-016-14774
C 16	16.2	77.1	574	3	US-09-949-016-16902
C 17	16.2	77.1	574	3	US-09-270-767-5285
C 18	16.2	77.1	601	3	US-09-270-767-20567
C 19	16.2	77.1	936	3	US-09-949-016-75838
C 20	16.2	77.1	1683	3	US-09-222-939-9
C 21	16.2	77.1	6564	3	US-08-983-045-3
C 22	16.2	77.1	11204	3	US-09-966-880A-10
C 23	16.2	77.1	14684	3	US-09-966-880A-35
C 24	16.2	77.1	19454	3	US-09-949-016-13942
C 25	16.2	77.1	19454	3	US-09-949-016-13532
C 26	16.2	77.1	75395	3	US-09-949-016-17157
C 27	16.2	77.1	75395	3	US-09-984-890-3
C 28	16.2	77.1	75395	3	US-10-274-194-3
C 29	16.2	77.1	75395	3	US-10-760-407-3
C 30	16.2	77.1	124884	3	US-03-661-596A-76
C 31	16.2	77.1	124884	3	US-09-913-514-1
C 32	16.2	77.1	124884	3	US-10-288-823-76
C 33	16.2	77.1	125157	3	US-09-913-514-2
C 34	16.2	77.1	601	3	US-09-949-016-180750
C 35	16.2	77.1	1095	3	US-09-949-016-5196
C 36	16.2	77.1	6435	3	US-09-949-016-2884
C 37	16.2	77.1	6435	3	US-09-949-016-2885
C 38	16.2	77.1	6594	3	US-09-949-016-2990
C 39	16.2	77.1	6594	3	US-09-949-016-2991
C 40	16.2	77.1	21914	3	US-09-949-016-14626
C 41	16.2	77.1	21914	3	US-09-949-016-14627
C 42	16.2	77.1	21914	3	US-09-949-016-14732
C 43	16.2	77.1	21914	3	US-09-949-016-14733
C 44	15.8	75.2	290	3	US-09-949-016-16938
C 45	15.8	75.2	601	3	US-09-280-116-129
C 46	15.8	75.2	1121	2	US-09-949-016-157972
C 47	15.8	75.2	1121	2	US-08-207-412B-1
C 48	15.8	75.2	1422	2	PCT-US95-02950-1
C 49	15.8	75.2	1422	2	US-08-439-725A-1
C 50	15.8	75.2	1422	2	US-08-867-471-1
C 51	15.8	75.2	1422	2	US-08-705-245-18
C 52	15.8	75.2	1422	2	US-09-490-714-18
C 53	15.8	75.2	1422	6	PCT-US96-06664-1
C 54	15.8	75.2	2010	3	US-09-247-155-151
C 55	15.8	75.2	2010	3	US-09-903-190-151
C 56	15.8	75.2	2099	3	US-09-800-729-56
C 57	15.8	75.2	2108	3	US-09-800-729-20
C 58	15.8	75.2	3495	3	US-09-976-594-118
C 59	15.8	75.2	10713	3	US-09-949-016-15928
C 60	15.8	75.2	36159	3	US-09-949-016-388-3
C 61	15.8	75.2	36159	3	US-10-135-687-3
C 62	15.8	75.2	42232	3	US-09-949-016-16147
C 63	15.8	75.2	42232	3	US-09-949-016-11917
C 64	15.8	75.2	42234	3	US-09-949-016-13705
C 65	15.8	75.2	135476	3	US-09-949-016-12611
C 66	15.8	75.2	288449	3	US-09-949-016-14413
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C 71	15.4	73.3	601	3	US-09-949-016-44966
C 72	15.4	73.3	816	3	US-09-949-016-73200
C 73	15.4	73.3	816	3	US-09-107-532A-1503
C 74	15.4	73.3	36456	3	US-09-949-016-12404
C 75	15.4	73.3	36457	3	US-09-949-016-13031
C 76	15.4	73.3	62386	3	US-09-949-016-12823
C 77	15.4	73.3	202111	3	US-09-949-016-13877
C 78	15.4	73.3	283538	3	US-09-949-016-13506
C 79	15.2	72.4	336	3	US-09-248-796A-10816
C 80	15.2	72.4	369	3	US-09-621-976-19178
C 81	15.2	72.4	442	3	US-09-513-999C-15779
C 82	15.2	72.4	538	3	US-09-854-133-332
C 83	15.2	72.4	601	3	US-09-949-016-47298
C 84	15.2	72.4	601	3	US-09-949-016-47299
C 85	15.2	72.4	601	3	US-09-949-016-47300
C 86	15.2	72.4	601	3	US-09-949-016-55289
C 87	15.2	72.4	601	3	US-09-949-016-74503
C 88	15.2	72.4	700	3	US-09-949-016-80044
C 89	15.2	72.4	707	3	US-09-735-271-492
C 90	15.2	72.4	934	3	US-08-896-164-1
C 91	15.2	72.4	934	3	US-08-842-306B-5
C 92	15.2	72.4	934	3	US-08-838-973B-5
C 93	15.2	72.4	934	3	US-08-771-212A-5
C 94	15.2	72.4	934	3	US-09-945-249-5
C 95	15.2	72.4	1278	3	US-09-041-990-5
C 96	15.2	72.4	1500	2	US-09-328-352-711
C 97	15.2	72.4	1500	6	US-08-704-398-1
C 98	15.2	72.4	1500	6	PCT-US95-05966-1

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c 103	15.2	72.4	22347	3	US-09-949-016-13290	Sequence 13290, A	176	14.6	69.5	287	3	US-09-513-999C-32920	Sequence 293, App
c 104	15.2	72.4	31820	3	US-09-949-016-13356	Sequence 13356, A	177	14.6	69.5	395	3	US-10-002-623-293	Sequence 296, App
c 105	15.2	72.4	43377	3	US-09-949-016-11840	Sequence 11840, A	178	14.6	69.5	395	3	US-10-002-623-296	Sequence 299, App
c 106	15.2	72.4	44378	3	US-09-949-016-13969	Sequence 13969, A	179	14.6	69.5	395	3	US-10-002-623-299	Sequence 436, App
c 107	15.2	72.4	50563	3	US-09-949-016-15821	Sequence 15821, A	180	14.6	69.5	447	3	US-10-002-623-436	Sequence 998, App
c 108	15.2	72.4	56694	3	US-09-949-016-12568	Sequence 12568, A	c 181	14.6	69.5	447	3	US-09-134-001C-998	Sequence 19529, A
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c 111	15.2	72.4	67386	3	US-09-949-016-16519	Sequence 16519, A	c 184	14.6	69.5	601	3	US-09-949-016-94790	Sequence 94790, A
c 112	15.2	72.4	70336	3	US-09-949-016-16156	Sequence 16156, A	c 185	14.6	69.5	601	3	US-09-949-016-94790	Sequence 133373, A
c 113	15.2	72.4	79824	3	US-09-949-016-13919	Sequence 13919, A	c 186	14.6	69.5	601	3	US-09-949-016-133373	Sequence 138315, A
c 114	15.2	72.4	83210	3	US-09-949-016-14209	Sequence 14209, A	c 187	14.6	69.5	601	3	US-09-949-016-138315	Sequence 138316, A
c 115	15.2	72.4	101011	3	US-09-949-016-16933	Sequence 16933, A	c 188	14.6	69.5	601	3	US-09-949-016-138317	Sequence 138317, A
c 116	15.2	72.4	101558	3	US-09-949-016-12243	Sequence 12243, A	c 189	14.6	69.5	601	3	US-09-949-016-162438	Sequence 162438, A
c 117	15.2	72.4	145241	3	US-09-949-016-17394	Sequence 17394, A	c 190	14.6	69.5	601	3	US-09-949-016-165313	Sequence 165313, A
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c 123	15.2	72.4	421491	3	US-09-949-016-12805	Sequence 12805, A	c 196	14.6	69.5	669	3	US-09-907-907A-12	Sequence 3113, Ap
c 124	15.2	72.4	421494	3	US-09-949-016-14060	Sequence 14060, A	c 197	14.6	69.5	681	3	US-09-248-796A-3113	Sequence 99, Appli
c 125	15	71.4	2833	3	US-09-276-531-23	Sequence 23, Appli	c 198	14.6	69.5	700	3	US-09-325-932A-99	Sequence 617, App
c 126	15	71.4	2880	2	US-08-987-289-1	Sequence 1, Appli	c 199	14.6	69.5	750	3	US-09-583-110-617	Sequence 817, App
c 127	15	71.4	49407	3	US-09-949-016-12532	Sequence 12532, A	c 200	14.6	69.5	771	3	US-09-107-433-817	Sequence 4, Appli
c 128	15	71.4	49408	3	US-09-949-016-17045	Sequence 17045, A	c 201	14.6	69.5	870	2	US-08-778-912A-4	Sequence 4, Appli
c 129	15	71.4	65744	3	US-09-949-016-12591	Sequence 12591, A	c 202	14.6	69.5	870	2	US-08-778-912A-4	Sequence 1, Appli
c 130	15	71.4	65745	3	US-09-949-016-15871	Sequence 15871, A	c 203	14.6	69.5	874	2	US-08-778-912A-1	Sequence 2, Appli
c 131	14.8	70.5	601	3	US-09-949-016-135516	Sequence 135516, A	c 204	14.6	69.5	874	2	US-08-541-941B-2	Sequence 3, Appli
c 132	14.8	70.5	601	3	US-09-949-016-135517	Sequence 135517, A	c 205	14.6	69.5	875	2	US-08-778-912A-2	Sequence 5, Appli
c 133	14.8	70.5	601	3	US-09-949-016-135536	Sequence 135536, A	c 206	14.6	69.5	875	2	US-08-778-912A-3	Sequence 7, Appli
c 134	14.8	70.5	601	3	US-09-949-016-135537	Sequence 135537, A	c 207	14.6	69.5	875	2	US-08-778-912A-5	Sequence 1, Appli
c 135	14.8	70.5	601	3	US-09-949-016-155584	Sequence 155584, A	c 208	14.6	69.5	875	2	US-08-778-912A-7	Sequence 3, Appli
c 136	14.8	70.5	601	3	US-09-949-016-155585	Sequence 155585, A	c 209	14.6	69.5	875	2	US-08-541-941B-1	Sequence 5, Appli
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c 138	14.8	70.5	601	3	US-09-949-016-155684	Sequence 155684, A	c 211	14.6	69.5	875	3	US-09-541-941B-5	Sequence 6, Appli
c 139	14.8	70.5	601	3	US-09-949-016-190705	Sequence 190705, A	c 212	14.6	69.5	876	2	US-08-778-912A-6	Sequence 6, Appli
c 140	14.8	70.5	601	3	US-09-949-016-206734	Sequence 206734, A	c 213	14.6	69.5	876	2	US-09-541-941B-6	Sequence 2904, Ap
c 141	14.8	70.5	769	3	US-09-270-767-2284	Sequence 2284, Ap	c 214	14.6	69.5	891	3	US-09-248-796A-2904	Sequence 22, Appli
c 142	14.8	70.5	769	3	US-09-270-767-17566	Sequence 17566, A	c 215	14.6	69.5	891	3	US-09-541-941B-22	Sequence 23, Appli
c 143	14.8	70.5	796	3	US-09-861-451A-73	Sequence 73, Appli	c 216	14.6	69.5	898	3	US-09-541-941B-23	Sequence 24, Appli
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c 146	14.8	70.5	2260	3	US-09-221-017B-33	Sequence 33, Appli	c 219	14.6	69.5	917	3	US-09-541-941B-16	Sequence 16, Appli
c 147	14.8	70.5	4170	3	US-09-371-307-57	Sequence 57, Appli	c 220	14.6	69.5	918	3	US-09-541-941B-16	Sequence 17, Appli
c 148	14.8	70.5	9562	3	US-09-949-016-17076	Sequence 17076, A	c 221	14.6	69.5	918	3	US-09-541-941B-17	Sequence 19, Appli
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c 150	14.8	70.5	13134	3	US-09-949-016-13128	Sequence 13128, A	c 223	14.6	69.5	918	3	US-08-476-008-41	Sequence 41, Appli
c 151	14.8	70.5	36016	3	US-09-949-016-14223	Sequence 14223, A	c 224	14.6	69.5	1287	2	US-08-306-063-41	Sequence 41, Appli
c 152	14.8	70.5	36154	3	US-09-949-016-13190	Sequence 13190, A	c 225	14.6	69.5	1287	2	US-08-833-485-41	Sequence 41, Appli
c 153	14.8	70.5	4698	3	US-09-949-016-17323	Sequence 17323, A	c 226	14.6	69.5	1287	2	US-08-833-485-41	Sequence 41, Appli
c 154	14.8	70.5	47184	3	US-09-949-016-12647	Sequence 12647, A	c 227	14.6	69.5	1287	2	US-08-833-485-41	Sequence 41, Appli
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c 156	14.8	70.5	54294	3	US-09-949-016-16498	Sequence 16498, A	c 229	14.6	69.5	1861	3	US-09-620-312D-756	Sequence 102, App
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c 158	14.8	70.5	70323	3	US-09-949-016-17594	Sequence 17594, A	c 231	14.6	69.5	2278	3	US-09-270-767-10662	Sequence 10662, A
c 159	14.8	70.5	74790	3	US-09-949-016-15321	Sequence 15321, A	c 232	14.6	69.5	3147	3	US-09-489-039A-45	Sequence 45, Appli
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c 161	14.8	70.5	75929	3	US-09-949-016-15544	Sequence 15544, A	c 234	14.6	69.5	4277	3	US-10-012-231A-57	Sequence 57, Appli
c 162	14.8	70.5	93171	3	US-09-949-016-16356	Sequence 16356, A	c 235	14.6	69.5	4277	3	US-10-015-389A-57	Sequence 57, Appli
c 163	14.8	70.5	93171	3	US-09-949-016-16357	Sequence 16357, A	c 236	14.6	69.5	4277	3	US-10-006-768A-57	Sequence 57, Appli
c 164	14.8	70.5	93971	3	US-09-949-016-16098	Sequence 16098, A	c 237	14.6	69.5	4277	3	US-10-015-671A-57	Sequence 57, Appli
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c 169	14.8	70.5	181429	3	US-09-949-016-12372	Sequence 12372, A	c 242	14.6	69.5	6156	3	US-09-614-221A-231	Sequence 231, Ap
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C 251	14.6	69.5	28884	3	US-09-949-016-16401	Sequence 16401, A	C 324	14.2	67.6	234	3	US-09-270-767-6343	Sequence 6343, Ap
C 252	14.6	69.5	37822	3	US-09-949-016-16291	Sequence 16291, A	C 325	14.2	67.6	234	3	US-09-270-767-6343	Sequence 6343, Ap
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C 254	14.6	69.5	44248	3	US-09-949-016-11829	Sequence 11829, A	C 327	14.2	67.6	234	3	US-09-270-767-6343	Sequence 6343, Ap
C 255	14.6	69.5	44249	3	US-09-949-016-14485	Sequence 14485, A	C 328	14.2	67.6	243	3	US-08-970-269A-26	Sequence 26, Appl
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C 258	14.6	69.5	52971	3	US-09-949-016-15637	Sequence 15637, A	C 331	14.2	67.6	248	3	US-08-970-269A-27	Sequence 27, Appl
C 259	14.6	69.5	60465	3	US-09-949-016-15995	Sequence 15995, A	C 332	14.2	67.6	248	3	US-08-970-269A-27	Sequence 27, Appl
C 260	14.6	69.5	64610	3	US-09-949-016-12214	Sequence 12214, A	C 333	14.2	67.6	370	3	US-09-270-767-6343	Sequence 6343, Ap
C 261	14.6	69.5	102008	3	US-09-949-016-16617	Sequence 16617, A	C 334	14.2	67.6	370	3	US-09-270-767-6343	Sequence 6343, Ap
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C 266	14.6	69.5	150409	3	US-09-949-016-12290	Sequence 12290, A	C 339	14.2	67.6	601	3	US-09-949-016-70980	Sequence 70980, A
C 267	14.6	69.5	150409	3	US-09-949-016-12290	Sequence 12290, A	C 340	14.2	67.6	601	3	US-09-949-016-84437	Sequence 84437, A
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C 270	14.6	69.5	183770	3	US-09-949-016-15494	Sequence 15494, A	C 343	14.2	67.6	601	3	US-09-949-016-84437	Sequence 84437, A
C 271	14.6	69.5	194915	3	US-09-949-016-15584	Sequence 15584, A	C 344	14.2	67.6	601	3	US-09-949-016-84437	Sequence 84437, A
C 272	14.6	69.5	267482	3	US-09-949-002-659	Sequence 659, App	C 345	14.2	67.6	601	3	US-09-949-016-94080	Sequence 94080, A
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C 276	14.6	69.5	373182	3	US-09-949-016-17371	Sequence 17371, A	C 349	14.2	67.6	601	3	US-09-949-016-129084	Sequence 129084, A
C 277	14.6	69.5	373694	3	US-09-949-016-17371	Sequence 17371, A	C 350	14.2	67.6	601	3	US-09-949-016-135269	Sequence 135269, A
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C 282	14.4	68.6	222	3	US-09-543-681A-3495	Sequence 3495, Ap	C 355	14.2	67.6	601	3	US-09-949-016-161877	Sequence 161877, A
C 283	14.4	68.6	288	3	US-09-471-276-669	Sequence 669, App	C 356	14.2	67.6	601	3	US-09-949-016-162741	Sequence 162741, A
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C 287	14.4	68.6	363	3	US-09-513-999C-12088	Sequence 12088, A	C 360	14.2	67.6	601	3	US-09-949-016-180085	Sequence 180085, A
C 288	14.4	68.6	413	3	US-09-621-976-17393	Sequence 17393, A	C 361	14.2	67.6	601	3	US-09-949-016-206343	Sequence 206343, A
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C 290	14.4	68.6	426	3	US-09-066-049-2	Sequence 2, Appli	C 363	14.2	67.6	601	3	US-09-949-002-2645	Sequence 2645, Ap
C 291	14.4	68.6	467	3	US-09-621-976-17973	Sequence 17973, Ap	C 364	14.2	67.6	601	3	US-09-949-002-9914	Sequence 9914, Ap
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C 293	14.4	68.6	601	3	US-09-949-016-61154	Sequence 61154, A	C 366	14.2	67.6	601	3	US-09-949-002-10594	Sequence 10594, A
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C 312	14.4	68.6	64638	3	US-09-949-016-11767	Sequence 11767, A	C 385	14.2	67.6	1326	2	US-09-134-000C-1264	Sequence 1264, Ap
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ALIGNMENTS

RESULT 1

US-10-258-842-4/c

; Sequence 4, Application US/10258842

; Patent No. 6943280

; GENERAL INFORMATION:

; APPLICANT: Board of Supervisors of Louisiana State University and Agricultural and

; APPLICANT: Mechanical College

; APPLICANT: Croughan, Timothy

; TITLE OF INVENTION: RESISTANCE TO ACETOHYDROXYACID SYNTHASE-INHIBITING HERBICIDES

; FILE REFERENCE: 98A9.2-PCT Croughan

; CURRENT APPLICATION NUMBER: US/10/258,842

; CURRENT FILING DATE: 2002-10-28

; PRIOR APPLICATION NUMBER: US 60/203,434

; PRIOR FILING DATE: 2000-05-10

; NUMBER OF SEQ ID NOS: 25

; SOFTWARE: PatentIn version 3.0; and WordPerfect version 8

; SEQ ID NO 4

; LENGTH: 2279

; TYPE: DNA

; ORGANISM: Oryza sativa

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: Herbicide resistant AHAS sequence, variety Kinmaze

; PUBLICATION INFORMATION:

; DATABASE ACCESSION NUMBER: BLAST / AB049823

; DATABASE ENTRY DATE: 2001-04-14

US-10-258-842-4

Query Match 92.4%; Score 19.4; DB 3; Length 2279;

Best Local Similarity 95.2%; Pred. No. 4.7;

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Title: US-10-805-973-2

Perfect score: 21

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SUMMARIES

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C 126	15.8	75.2	600	9	US-10-972-079-23789	Sequence 23789, A	C 199	15.8	75.2	64135	7	US-10-322-281-489	Sequence 489, App
C 127	15.8	75.2	600	9	US-10-972-079-23790	Sequence 23790, A	C 200	15.8	75.2	402850	3	US-09-844-653-5	Sequence 5, Appli
C 128	15.8	75.2	600	9	US-10-972-079-23790	Sequence 23790, A	C 201	15.8	75.2	567564	8	US-10-699-156-3	Sequence 3, Appli
C 129	15.8	75.2	605	4	US-09-925-065A-250693	Sequence 250693,	C 202	15.8	75.2	1601042	5	US-10-027-632-59064	Sequence 59064, A
C 130	15.8	75.2	616	4	US-09-925-065A-197978	Sequence 197978,	C 203	15.8	75.2	1601042	6	US-10-027-632-59064	Sequence 59064, A
C 131	15.8	75.2	616	4	US-09-925-065A-250860	Sequence 250860,	C 204	15.6	74.3	1210	4	US-09-925-065A-295562	Sequence 295562,
C 132	15.8	75.2	626	4	US-09-925-065A-318720	Sequence 318720,	C 205	15.4	73.3	25	8	US-10-719-900-170372	Sequence 170372,
C 133	15.8	75.2	629	4	US-09-925-065A-140372	Sequence 140372,	C 206	15.4	73.3	25	8	US-10-719-900-443953	Sequence 443953,
C 134	15.8	75.2	632	4	US-09-925-065A-118894	Sequence 118894,	C 207	15.4	73.3	25	8	US-10-719-900-520661	Sequence 520661,
C 135	15.8	75.2	639	4	US-09-925-065A-732568	Sequence 732568,	C 208	15.4	73.3	25	10	US-11-036-317-433553	Sequence 433553,
C 136	15.8	75.2	641	7	US-10-424-599-122531	Sequence 122531,	C 209	15.4	73.3	274	7	US-10-424-599-123815	Sequence 123815,
C 137	15.8	75.2	659	4	US-09-925-065A-963339	Sequence 963339, A	C 210	15.4	73.3	345	9	US-10-911-704-413	Sequence 413, App
C 138	15.8	75.2	684	5	US-10-027-632-232453	Sequence 232453, A	C 211	15.4	73.3	412	8	US-10-425-115-129764	Sequence 129764,
C 139	15.8	75.2	684	6	US-10-027-632-232453	Sequence 232453,	C 212	15.4	73.3	455	8	US-10-425-115-100640	Sequence 100640,
C 140	15.8	75.2	716	5	US-10-027-632-148558	Sequence 148558,	C 213	15.4	73.3	482	4	US-09-925-065A-68763	Sequence 68763, A
C 141	15.8	75.2	716	6	US-10-027-632-148558	Sequence 148558,	C 214	15.4	73.3	485	9	US-10-779-543-9753	Sequence 9753, Ap
C 142	15.8	75.2	756	4	US-09-925-065A-70649	Sequence 70649, A	C 215	15.4	73.3	498	7	US-10-242-535A-29494	Sequence 29494, A
C 143	15.8	75.2	793	5	US-10-076-555-514	Sequence 514, App	C 216	15.4	73.3	498	7	US-10-085-783A-29494	Sequence 29494, A
C 144	15.8	75.2	793	9	US-10-779-543-514	Sequence 514, App	C 217	15.4	73.3	507	4	US-09-925-065A-739364	Sequence 739364,
C 145	15.8	75.2	793	9	US-10-779-543-5630	Sequence 5630, App	C 218	15.4	73.3	507	4	US-09-925-065A-739365	Sequence 739365,
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C 148	15.8	75.2	900	8	US-10-357-930-21347	Sequence 21347, A	C 221	15.4	73.3	574	4	US-09-925-065A-114709	Sequence 114709,
C 149	15.8	75.2	900	8	US-10-357-930-21347	Sequence 21347, A	C 222	15.4	73.3	600	9	US-10-972-079-207	Sequence 207, App
C 150	15.8	75.2	905	8	US-10-723-860-5673	Sequence 5673, Ap	C 223	15.4	73.3	623	4	US-09-925-065A-639697	Sequence 639697,
C 151	15.8	75.2	917	7	US-10-767-701-11739	Sequence 11739, A	C 224	15.4	73.3	643	4	US-09-925-065A-590997	Sequence 590997,
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C 158	15.8	75.2	1400	9	US-10-956-157-6712	Sequence 6712, Ap	C 231	15.4	73.3	1020	4	US-09-925-065A-682368	Sequence 682368,
C 159	15.8	75.2	1404	9	US-10-450-763-27759	Sequence 27759, A	C 232	15.4	73.3	1020	4	US-09-925-065A-682369	Sequence 682369,
C 160	15.8	75.2	1407	9	US-10-424-599-111889	Sequence 111889,	C 233	15.4	73.3	1020	4	US-09-925-065A-682370	Sequence 682370,
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C 162	15.8	75.2	1422	6	US-10-347-177-1	Sequence 1, Appli	C 235	15.4	73.3	1909	7	US-10-425-114-6915	Sequence 6915, Ap
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C 166	15.8	75.2	1631	5	US-10-103-313-169	Sequence 169, App	C 239	15.4	73.3	2100	3	US-09-764-872-843	Sequence 843, App
C 167	15.8	75.2	1669	4	US-09-925-065A-34094	Sequence 34094, A	C 240	15.4	73.3	2247	8	US-10-425-115-37821	Sequence 37821, A
C 168	15.8	75.2	1669	4	US-09-925-065A-34095	Sequence 34095, A	C 241	15.4	73.3	3152	7	US-10-437-963-65080	Sequence 65080, A
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276	15.2	72.4	479	5	US-10-198-846-7901	Sequence 7901, Ap	349	15.2	72.4	843	7	US-10-335-977-9613	Sequence 9613, Ap
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SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
C 1	19.4	92.4	2279	7 US-10-509-121-37	Sequence 37, Appl
C 2	19.4	92.4	2294	7 US-10-509-121-5	Sequence 5, Appl
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C 4	19.4	92.4	2304	7 US-10-509-121-3	Sequence 3, Appl
C 5	19.4	92.4	2301	7 US-10-509-121-1	Sequence 1, Appl
C 6	19.4	92.4	2301	7 US-10-509-121-38	Sequence 38, Appl
C 7	17.8	84.8	148220	11 US-11-121-086-90	Sequence 90, Appl
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C 10	16.4	78.1	143947	11 US-11-193-561-13237	Sequence 13237, A
C 11	16.4	78.1	143947	11 US-11-193-561-37	Sequence 37, Appl
C 12	16.4	78.1	143947	11 US-11-193-789-37	Sequence 37, Appl
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C 90	14.6	69.5	587	7 US-10-750-185-43253	Sequence 43253, A
C 91	14.6	69.5	587	7 US-10-750-623-43253	Sequence 43253, A
C 92	14.6	69.5	756	11 US-11-098-686-8904	Sequence 8904, Ap
C 93	14.6	69.5	894	7 US-10-750-185-59156	Sequence 59156, A
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c 102	14.6	69.5	1550	7	US-10-750-623-36584	Sequence 36584, A	c 175	14.2	67.6	201	7	US-10-995-561-56856	Sequence 56856, A
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c 105	14.6	69.5	1619	7	US-10-750-185-63154	Sequence 63154, A	c 178	14.2	67.6	201	11	US-11-124-3678A-17518	Sequence 17518, A
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c 107	14.6	69.5	1681	7	US-10-750-623-63154	Sequence 63154, A	c 180	14.2	67.6	201	11	US-11-124-3678A-22279	Sequence 22279, A
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c 111	14.6	69.5	1843	7	US-10-750-623-33240	Sequence 33240, A	c 184	14.2	67.6	600	11	US-11-136-527-4775	Sequence 4775, Ap
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c 164	14.2	67.6	25	11	US-11-121-849-332257	Sequence 332257, A	c 237	14.2	67.6	1967	7	US-10-750-623-40057	Sequence 40057, A
c 165	14.2	67.6	25	11	US-11-121-849-332258	Sequence 332258, A	c 238	14.2	67.6	1967	7	US-10-750-185-64839	Sequence 64839, A
c 166	14.2	67.6	25	11	US-11-121-849-506208	Sequence 506208, A	c 239	14.2	67.6	1969	7	US-10-750-623-64839	Sequence 64839, A
c 167	14.2	67.6	25	11	US-11-121-849-620360	Sequence 620360, A	c 240	14.2	67.6	1970	8	US-11-245-147-198	Sequence 198, App

241	14.2	67.6	1970	11	US-11-108-528-11	Sequence 11, Appl	c 314	13.8	65.7	50	11	US-11-175-859-17411	Sequence 17411, A
242	14.2	67.6	2014	11	US-11-245-147-199	Sequence 199, Appl	c 315	13.8	65.7	50	11	US-11-175-859-37599	Sequence 37599, A
243	14.2	67.6	2014	11	US-11-108-528-9	Sequence 9, Appl	c 316	13.8	65.7	50	11	US-11-175-859-76583	Sequence 76583, A
244	14.2	67.6	2071	7	US-10-750-185-44256	Sequence 44256, A	c 317	13.8	65.7	50	11	US-11-175-859-91447	Sequence 91447, A
245	14.2	67.6	2071	7	US-10-750-623-44256	Sequence 44256, A	c 318	13.8	65.7	62	7	US-10-310-314A-4705	Sequence 4705, Ap
246	14.2	67.6	2113	7	US-10-750-185-52932	Sequence 52932, A	c 319	13.8	65.7	201	7	US-10-995-561-28094	Sequence 28094, A
247	14.2	67.6	2113	7	US-10-750-623-52932	Sequence 52932, A	c 320	13.8	65.7	201	7	US-10-995-561-28095	Sequence 28095, A
248	14.2	67.6	2134	8	US-11-072-512-737	Sequence 737, App	c 321	13.8	65.7	201	7	US-10-995-561-28250	Sequence 28250, A
249	14.2	67.6	2228	7	US-10-750-185-61216	Sequence 61216, A	c 322	13.8	65.7	201	7	US-10-995-561-28252	Sequence 28252, A
250	14.2	67.6	2228	7	US-10-750-623-61216	Sequence 61216, A	c 323	13.8	65.7	201	7	US-10-995-561-60491	Sequence 60491, A
251	14.2	67.6	2363	7	US-10-750-185-24736	Sequence 24736, A	c 324	13.8	65.7	201	11	US-11-124-368A-18656	Sequence 18656, A
252	14.2	67.6	2363	7	US-10-750-623-24736	Sequence 24736, A	c 325	13.8	65.7	201	11	US-11-124-368A-20157	Sequence 20157, A
253	14.2	67.6	2385	8	US-11-245-147-161	Sequence 161, App	c 326	13.8	65.7	201	11	US-11-124-367A-8308	Sequence 8308, Ap
254	14.2	67.6	2488	7	US-10-750-185-46995	Sequence 46995, A	c 327	13.8	65.7	201	11	US-11-124-367A-18366	Sequence 18366, A
255	14.2	67.6	2488	7	US-10-750-623-46995	Sequence 46995, A	c 328	13.8	65.7	201	11	US-11-124-367A-20090	Sequence 20090, A
256	14.2	67.6	2621	7	US-10-750-185-46264	Sequence 46264, A	c 329	13.8	65.7	600	7	US-10-750-185-21392	Sequence 21392, A
257	14.2	67.6	2621	7	US-10-750-623-46264	Sequence 46264, A	c 330	13.8	65.7	600	7	US-10-750-623-21392	Sequence 21392, A
258	14.2	67.6	2825	7	US-10-750-185-58200	Sequence 58200, A	c 331	13.8	65.7	641	11	US-11-043-752-3874	Sequence 3874, Ap
259	14.2	67.6	2825	7	US-10-750-623-58200	Sequence 58200, A	c 332	13.8	65.7	801	11	US-11-043-752-3873	Sequence 3873, Ap
260	14.2	67.6	2922	8	US-11-072-512-971	Sequence 971, App	c 333	13.8	65.7	994	7	US-10-750-185-53349	Sequence 53349, A
261	14.2	67.6	3026	7	US-10-750-185-40193	Sequence 40193, A	c 334	13.8	65.7	994	7	US-10-750-623-53349	Sequence 53349, A
262	14.2	67.6	3026	7	US-10-750-623-40193	Sequence 40193, A	c 335	13.8	65.7	1007	7	US-10-750-185-38082	Sequence 38082, A
263	14.2	67.6	3087	11	US-11-136-527-1013	Sequence 1013, Ap	c 336	13.8	65.7	1007	7	US-10-750-623-38082	Sequence 38082, A
264	14.2	67.6	3237	7	US-10-750-185-32291	Sequence 32291, A	c 337	13.8	65.7	1020	7	US-10-678-790-48	Sequence 48, Appl
265	14.2	67.6	3237	7	US-10-750-623-32291	Sequence 32291, A	c 338	13.8	65.7	1040	7	US-10-678-790-47	Sequence 47, Appl
266	14.2	67.6	3407	7	US-10-750-185-44023	Sequence 44023, A	c 339	13.8	65.7	1040	7	US-10-750-185-34323	Sequence 34323, A
267	14.2	67.6	3407	7	US-10-750-623-44023	Sequence 44023, A	c 340	13.8	65.7	1049	7	US-10-750-623-34323	Sequence 34323, A
268	14.2	67.6	3576	11	US-11-108-528-13	Sequence 13, Appl	c 341	13.8	65.7	1049	7	US-10-750-623-34323	Sequence 34323, A
269	14.2	67.6	3796	7	US-10-516-768-5	Sequence 5, Appl	c 342	13.8	65.7	1050	7	US-10-678-790-51	Sequence 51, Appl
270	14.2	67.6	4403	7	US-10-750-185-38248	Sequence 38248, A	c 343	13.8	65.7	1058	7	US-10-678-790-49	Sequence 49, Appl
271	14.2	67.6	4403	7	US-10-750-623-38248	Sequence 38248, A	c 344	13.8	65.7	1183	7	US-10-750-185-64788	Sequence 64788, A
272	14.2	67.6	4893	7	US-10-750-185-42101	Sequence 42101, A	c 345	13.8	65.7	1183	7	US-10-750-623-64788	Sequence 64788, A
273	14.2	67.6	4893	7	US-10-750-623-42101	Sequence 42101, A	c 346	13.8	65.7	1189	7	US-10-750-185-37476	Sequence 37476, A
274	14.2	67.6	5331	11	US-11-136-527-2528	Sequence 2528, Ap	c 347	13.8	65.7	1189	7	US-10-750-623-37476	Sequence 37476, A
275	14.2	67.6	5448	11	US-11-124-367A-105	Sequence 105, App	c 348	13.8	65.7	1240	7	US-10-750-185-47696	Sequence 47696, A
276	14.2	67.6	5759	8	US-11-072-175-64	Sequence 64, Appl	c 349	13.8	65.7	1240	7	US-10-750-623-47696	Sequence 47696, A
277	14.2	67.6	6773	7	US-10-516-768-15	Sequence 15, Appl	c 350	13.8	65.7	1368	7	US-10-750-185-44824	Sequence 44824, A
278	14.2	67.6	19959	7	US-10-993-516-1	Sequence 1, Appl	c 351	13.8	65.7	1368	7	US-10-750-623-44824	Sequence 44824, A
279	14.2	67.6	46089	7	US-10-995-561-13325	Sequence 13325, A	c 352	13.8	65.7	1404	7	US-10-750-185-49151	Sequence 49151, A
280	14.2	67.6	54985	11	US-11-124-367A-5047	Sequence 5047, Ap	c 353	13.8	65.7	1404	7	US-10-750-623-49151	Sequence 49151, A
281	14.2	67.6	61487	11	US-11-124-367A-5103	Sequence 5103, Ap	c 354	13.8	65.7	1436	7	US-10-750-185-55286	Sequence 55286, A
282	14.2	67.6	62244	11	US-11-124-367A-5066	Sequence 5066, Ap	c 355	13.8	65.7	1436	7	US-10-750-623-55286	Sequence 55286, A
283	14.2	67.6	75007	7	US-10-995-561-13194	Sequence 13194, A	c 356	13.8	65.7	1468	7	US-10-750-185-51389	Sequence 51389, A
284	14.2	67.6	77564	11	US-11-124-367A-5055	Sequence 5055, Ap	c 357	13.8	65.7	1468	8	US-10-750-623-51389	Sequence 51389, A
285	14.2	67.6	90572	11	US-11-124-368A-2900	Sequence 2900, Ap	c 358	13.8	65.7	1484	7	US-11-245-147-226	Sequence 226, App
286	14.2	67.6	95604	11	US-11-124-367A-5097	Sequence 5097, Ap	c 359	13.8	65.7	1484	7	US-10-750-185-34593	Sequence 34593, A
287	14.2	67.6	100000	11	US-11-124-367A-5044	Sequence 5044, Ap	c 360	13.8	65.7	1484	7	US-10-750-623-34593	Sequence 34593, A
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289	14.2	67.6	100000	11	US-11-124-367A-5107	Sequence 5107, Ap	c 362	13.8	65.7	1494	7	US-10-750-623-30743	Sequence 30743, A
290	14.2	67.6	101046	7	US-10-995-561-13330	Sequence 13330, A	c 363	13.8	65.7	1496	7	US-10-131-826A-287	Sequence 287, App
291	14.2	67.6	130733	11	US-11-121-086-19	Sequence 19, Appl	c 364	13.8	65.7	1531	7	US-10-750-185-31608	Sequence 31608, A
292	14.2	67.6	151870	7	US-10-995-561-13159	Sequence 13159, A	c 365	13.8	65.7	1531	7	US-10-750-623-31608	Sequence 31608, A
293	14.2	67.6	160170	11	US-11-121-086-32	Sequence 32, Appl	c 366	13.8	65.7	1571	7	US-10-750-185-36805	Sequence 36805, A
294	14.2	67.6	162289	11	US-11-121-086-20	Sequence 20, Appl	c 367	13.8	65.7	1571	7	US-10-750-623-36805	Sequence 36805, A
295	14.2	67.6	165627	11	US-11-121-086-89	Sequence 89, Appl	c 368	13.8	65.7	1643	7	US-10-750-185-62452	Sequence 62452, A
296	14.2	67.6	175100	11	US-11-121-086-21	Sequence 21, Appl	c 369	13.8	65.7	1643	7	US-10-750-623-62452	Sequence 62452, A
297	14.2	67.6	176503	11	US-11-121-086-53	Sequence 53, Appl	c 370	13.8	65.7	1695	7	US-10-750-185-45389	Sequence 45389, A
298	14.2	67.6	189539	11	US-11-121-086-16	Sequence 16, Appl	c 371	13.8	65.7	1695	7	US-10-750-623-45389	Sequence 45389, A
299	14.2	67.6	193383	11	US-11-121-908-32	Sequence 32, Appl	c 372	13.8	65.7	1718	7	US-10-750-185-57163	Sequence 57163, A
300	14.2	67.6	317876	7	US-10-995-561-13227	Sequence 13227, A	c 373	13.8	65.7	1718	7	US-10-750-623-57163	Sequence 57163, A
301	14.2	67.6	1082144	11	US-11-117-187-211	Sequence 211, App	c 374	13.8	65.7	1721	7	US-10-750-185-63780	Sequence 63780, A
302	14	66.7	201	7	US-11-136-527-21	Sequence 21, App	c 375	13.8	65.7	1721	7	US-10-750-623-63780	Sequence 63780, A
303	14	66.7	3994	11	US-11-136-527-21	Sequence 210, App	c 376	13.8	65.7	1779	6	US-10-524-972-99	Sequence 99, Appl
304	14	66.7	31309	11	US-11-124-367A-5054	Sequence 5054, Ap	c 377	13.8	65.7	1779	7	US-10-467-962B-94	Sequence 94, Appl
305	14	66.7	63693	7	US-10-995-561-13269	Sequence 13269, A	c 378	13.8	65.7	1779	7	US-10-524-647-111	Sequence 111, App
306	13.8	65.7	19	9	US-11-101-244-676296	Sequence 676296, A	c 379	13.8	65.7	1783	7	US-10-750-185-57582	Sequence 57582, A
307	13.8	65.7	19	9	US-11-101-244-708262	Sequence 708262, A	c 380	13.8	65.7	1783	7	US-10-750-623-57582	Sequence 57582, A
308	13.8	65.7	19	10	US-11-083-784-676296	Sequence 676296, A	c 381	13.8	65.7	1820	7	US-10-750-185-27001	Sequence 27001, A
309	13.8	65.7	19	10	US-11-083-784-708262	Sequence 708262, A	c 382	13.8	65.7	1820	7	US-10-750-623-27001	Sequence 27001, A
310	13.8	65.7	22	7	US-10-310-914A-885292	Sequence 885292, A	c 383	13.8	65.7	1917	7	US-10-750-185-57139	Sequence 57139, A
311	13.8	65.7	24	7	US-10-310-914A-25306	Sequence 25306, A	c 384	13.8	65.7	1917	7	US-10-750-623-57139	Sequence 57139, A
312	13.8	65.7	25	11	US-11-121-849-574208	Sequence 574208, A	c 385	13.8	65.7	2001	11	US-11-043-752-3324	Sequence 3324, Ap
313	13.8	65.7	25	11	US-11-121-849-627954	Sequence 627954, A	c 386	13.8	65.7	2001	11	US-11-043-752-3326	Sequence 3326, Ap

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 860.024 Seconds
(without alignments)
1586.285 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

Sequence: 1 gcacatccctacaaagagaagat 24

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5803141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

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1: gb_ba.*

2: gb_in.*

3: gb_env.*

4: gb_on.*

5: gb_ov.*

6: gb_pat.*

7: gb_ph.*

8: gb_pr.*

9: gb_ro.*

10: gb_ats.*

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12: gb_un.*

13: gb_vi.*

14: gb_htg.*

15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20.8	86.7	570	10	BV004378 S208P6368
2	20.8	86.7	199130	9	AL805919 Mouse DNA
3	20.4	85.0	807	10	BV321556 S236P6259
4	19.8	82.5	125047	14	AC146988 Lytechinu
5	19.8	82.5	141914	9	AC161234 Mus muscu
6	19.8	82.5	160302	8	AC010685 Homo sapi
7	19.8	82.5	180166	14	AC011898 Homo sapi
8	19.8	82.5	234124	14	AC098949 Rattus no
9	19.8	82.5	235405	9	AC101737
10	19.4	80.8	229905	14	AC135819 Rattus no
11	19.2	80.0	62899	14	AC100341 Mus muscu
12	19.2	80.0	114631	8	AC006010 Homo sapi
13	19.2	80.0	135432	14	AL645989 Mus muscu
14	19.2	80.0	149059	8	AC027779 Homo sapi
15	19.2	80.0	162888	14	AC134796 Mus muscu
16	19.2	80.0	181755	14	AC026996 Homo sapi
17	19.2	80.0	199536	9	AL683801 Mouse DNA
18	19.2	80.0	207629	9	AL645637 Mouse DNA

19	19.2	80.0	213801	9	AC135608
20	19.2	80.0	214157	8	AC147312
c 21	19.2	80.0	217981	14	AC147088
22	19.2	80.0	224566	9	AC160402
23	19.2	80.0	246911	14	AC097084
c 24	19	79.2	140494	9	BX276179
25	19	79.2	163435	9	CR932808
c 26	18.8	78.3	457	10	HUMUT955
27	18.8	78.3	76581	8	AL355304
28	18.8	78.3	145314	15	AC146852
29	18.8	78.3	166138	4	AC150858
c 30	18.8	78.3	172016	9	AC154026
c 31	18.8	78.3	173511	9	AC109618
c 32	18.8	78.3	183415	14	AC150288
33	18.8	78.3	204153	8	AC074091
34	18.8	78.3	212677	9	AC125463
35	18.8	78.3	232058	14	AC094131
c 36	18.4	76.7	804	5	CR353308
37	18.4	76.7	1950	15	BT010150
38	18.4	76.7	88401	15	F23M19
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40	18.4	76.7	131863	5	BX640402
41	18.4	76.7	150718	14	AC152869
c 42	18.4	76.7	212337	8	AC079235
43	18.4	76.7	219558	14	AC117028
c 44	18.4	76.7	245135	14	AC111565
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47	18.2	75.8	603	10	BV316004
c 48	18.2	75.8	609	10	BV420253
c 49	18.2	75.8	677	6	CQ427854
c 50	18.2	75.8	686	10	BV666707
c 51	18.2	75.8	711	6	CQ418953
c 52	18.2	75.8	2817	9	RNU27186
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55	18.2	75.8	22500	15	SPBC11C11
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58	18.2	75.8	33398	15	SPBC3B8
59	18.2	75.8	43962	14	AC068192
60	18.2	75.8	44190	14	BX545908
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63	18.2	75.8	55588	8	AC073841
c 64	18.2	75.8	61490	14	AC025630
c 65	18.2	75.8	68731	2	AC087415
66	18.2	75.8	68842	14	AC026915
67	18.2	75.8	68984	14	AC103797
c 68	18.2	75.8	69142	15	AB012239
c 69	18.2	75.8	79271	2	CEY105E8B
c 70	18.2	75.8	85140	14	AL158197
71	18.2	75.8	86578	14	AC126326
c 72	18.2	75.8	90248	14	AC108366
c 73	18.2	75.8	91061	14	AC087139
c 74	18.2	75.8	94862	8	AL158140
75	18.2	75.8	95548	14	AC129940_3
76	18.2	75.8	96001	8	AC016945
77	18.2	75.8	110000	14	AC113631_1
78	18.2	75.8	110000	14	AC129939_2
c 79	18.2	75.8	110000	14	CEY105E8_5
c 80	18.2	75.8	110000	15	AP008209_162
81	18.2	75.8	110000	15	AP008209_212
c 82	18.2	75.8	112833	14	AC068881
83	18.2	75.8	118837	8	AC021183
84	18.2	75.8	123695	8	HSJ581113
85	18.2	75.8	123826	14	AC163732
86	18.2	75.8	128032	8	AC091730
c 87	18.2	75.8	131152	9	AL929068
88	18.2	75.8	131416	9	AC144733
c 89	18.2	75.8	131901	14	AC158980
c 90	18.2	75.8	131944	8	AC097659
c 91	18.2	75.8	132384	8	AC116347

c 92	18.2	75.8 132504	9	AL627101	AL627101 Mouse DNA
c 93	18.2	75.8 132718	9	BX284612	Mouse DNA
c 94	18.2	75.8 135585	15	AC118134	Oryza sat
c 95	18.2	75.8 136630	14	AC023572	Homo sapi
c 96	18.2	75.8 139072	14	AC011261	Homo sapi
c 97	18.2	75.8 140090	8	AC010448	Homo sapi
c 98	18.2	75.8 140466	8	AL355529	Human DNA
c 99	18.2	75.8 141441	8	AC087073	Homo sapi
c 100	18.2	75.8 141789	14	CR936970	Danio rer
c 101	18.2	75.8 143680	14	AC136539	Rattus no
c 102	18.2	75.8 146933	14	CR848722	Danio rer
c 103	18.2	75.8 148064	8	AC022861	Homo sapi
c 104	18.2	75.8 150214	8	AC0111291	Homo sapi
c 105	18.2	75.8 150275	6	CS086350	Sequence
c 106	18.2	75.8 151805	14	AC013741	Homo sapi
c 107	18.2	75.8 152312	8	AC106738	Homo sapi
c 108	18.2	75.8 152617	14	AL592188	Homo sapi
c 109	18.2	75.8 153042	14	AL590990	Homo sapi
c 110	18.2	75.8 153042	14	AL590990	Homo sapi
c 111	18.2	75.8 153042	14	AL590990	Homo sapi
c 112	18.2	75.8 154090	14	AC143024	Rattus no
c 113	18.2	75.8 154840	14	AC033035	Homo sapi
c 114	18.2	75.8 157615	4	AC092003	Felis cat
c 115	18.2	75.8 157896	8	AC010283	Homo sapi
c 116	18.2	75.8 159597	8	AC008747	Homo sapi
c 117	18.2	75.8 164473	9	AC154506	Mus muscu
c 118	18.2	75.8 166357	8	AC026307	Homo sapi
c 119	18.2	75.8 166983	8	AC002541	Homo sapi
c 120	18.2	75.8 167067	8	AP003027	Homo sapi
c 121	18.2	75.8 167133	14	AC026186	Homo sapi
c 122	18.2	75.8 167237	14	AC009636	Homo sapi
c 123	18.2	75.8 167806	14	AC092572	Homo sapi
c 124	18.2	75.8 168128	5	BX957344	Zebrafish
c 125	18.2	75.8 168242	8	AC140830	Homo sapi
c 126	18.2	75.8 168372	5	CR354401	Zebrafish
c 127	18.2	75.8 168430	14	AC145037	Homo sapi
c 128	18.2	75.8 168599	9	AL935336	Mouse DNA
c 129	18.2	75.8 170799	8	AC107204	Homo sapi
c 130	18.2	75.8 170976	14	AC073981	Homo sapi
c 131	18.2	75.8 171146	9	AC068808	Mus muscu
c 132	18.2	75.8 171405	8	AC117521	Homo sapi
c 133	18.2	75.8 171635	8	AL358875	Human DNA
c 134	18.2	75.8 171769	9	AC124393	Mus muscu
c 135	18.2	75.8 171969	14	AC021756	Homo sapi
c 136	18.2	75.8 172387	14	AC073579	Homo sapi
c 137	18.2	75.8 172972	14	AL353644	Oryza sat
c 138	18.2	75.8 174910	15	AC133333	Oryza sat
c 139	18.2	75.8 175559	14	AC145101	Homo sapi
c 140	18.2	75.8 177161	9	AC125340	Mus muscu
c 141	18.2	75.8 177513	8	AC022874	Homo sapi
c 142	18.2	75.8 178800	14	AC022874	Homo sapi
c 143	18.2	75.8 179318	14	AC164117	Mus muscu
c 144	18.2	75.8 179318	14	AC164117	Mus muscu
c 145	18.2	75.8 179957	14	AC165341	Mus muscu
c 146	18.2	75.8 179957	14	AC165341	Mus muscu
c 147	18.2	75.8 180390	5	BX908731	Zebrafish
c 148	18.2	75.8 181070	14	AC145850	Gallus ga
c 149	18.2	75.8 182133	8	AC009626	Homo sapi
c 150	18.2	75.8 182252	9	AC153879	Mus muscu
c 151	18.2	75.8 184515	8	AC010653	Homo sapi
c 152	18.2	75.8 185203	14	AL161649	Homo sapi
c 153	18.2	75.8 185281	14	AC011214	Homo sapi
c 154	18.2	75.8 185671	8	AC084193	Homo sapi
c 155	18.2	75.8 186860	9	AC161511	Mus muscu
c 156	18.2	75.8 187806	9	AC154552	Mus muscu
c 157	18.2	75.8 189097	14	AC022442	Homo sapi
c 158	18.2	75.8 190359	14	AC118356	Rattus no
c 159	18.2	75.8 191523	9	AC132261	Mus muscu
c 160	18.2	75.8 193211	9	AC130823	Mus muscu
c 161	18.2	75.8 193930	8	AC006296	Homo sapi
c 162	18.2	75.8 196144	8	AC121788	Mus muscu
c 163	18.2	75.8 196545	8	AC113390	Homo sapi
c 164	18.2	75.8 196695	14	AC078936	Homo sapi

c 165	18.2	75.8 196799	8	AC146074	Pan trogl
c 166	18.2	75.8 196919	14	AC118165	Rattus no
c 167	18.2	75.8 198678	14	AC163660	Mus muscu
c 168	18.2	75.8 198678	14	AC163660	Mus muscu
c 169	18.2	75.8 198872	8	AC147382	Pan trogl
c 170	18.2	75.8 199086	14	AC132250	Mus muscu
c 171	18.2	75.8 199471	8	AC009097	Homo sapi
c 172	18.2	75.8 201061	8	AC007353	Homo sapi
c 173	18.2	75.8 201359	14	AC128640	Homo sapi
c 174	18.2	75.8 201542	14	CR381687	Danio rer
c 175	18.2	75.8 202028	14	AC146093	Pan trogl
c 176	18.2	75.8 202188	9	AC124569	Mus muscu
c 177	18.2	75.8 202352	14	AC159140	Mus muscu
c 178	18.2	75.8 203655	14	AC164602	Mus muscu
c 179	18.2	75.8 206441	14	AC146148	Bob tauru
c 180	18.2	75.8 207715	14	AC164297	Mus muscu
c 181	18.2	75.8 207715	14	AC164297	Mus muscu
c 182	18.2	75.8 207715	14	AC164297	Mus muscu
c 183	18.2	75.8 209105	14	AC161886	Pan trogl
c 184	18.2	75.8 209105	14	AL645762	Homo sapi
c 185	18.2	75.8 209355	8	AC087645	Homo sapi
c 186	18.2	75.8 213661	9	AC116589	Mus muscu
c 187	18.2	75.8 213661	9	AC116589	Mus muscu
c 188	18.2	75.8 215910	14	BX928752	Danio rer
c 189	18.2	75.8 215910	14	AC162163	Mus muscu
c 190	18.2	75.8 215910	14	AC162163	Mus muscu
c 191	18.2	75.8 218928	14	AC113664	Rattus no
c 192	18.2	75.8 220624	9	AC124598	Mus muscu
c 193	18.2	75.8 221931	9	AC122881	Mus muscu
c 194	18.2	75.8 224817	14	AC133836	Rattus no
c 195	18.2	75.8 226865	14	AC098153	Rattus no
c 196	18.2	75.8 227304	8	AC161124	Pan trogl
c 197	18.2	75.8 229277	14	AC127672	Rattus no
c 198	18.2	75.8 229728	14	BX936294	Mus muscu
c 199	18.2	75.8 230372	14	AC073693	Mus muscu
c 200	18.2	75.8 233984	9	AC154417	Rattus no
c 201	18.2	75.8 236017	14	AC136909	Rattus no
c 202	18.2	75.8 237450	14	CR356232	Danio rer
c 203	18.2	75.8 238036	14	AC117123	Rattus no
c 204	18.2	75.8 238344	14	AC111935	Rattus no
c 205	18.2	75.8 238562	9	AC153522	Mus muscu
c 206	18.2	75.8 238751	14	AC095116	Rattus no
c 207	18.2	75.8 239241	14	AC128484	Rattus no
c 208	18.2	75.8 243537	14	AC132629	Rattus no
c 209	18.2	75.8 243537	14	AC132629	Rattus no
c 210	18.2	75.8 249899	14	AC158766	Mus muscu
c 211	18.2	75.8 258193	9	AC101221	Mus muscu
c 212	18.2	75.8 258193	9	AC101221	Mus muscu
c 213	18.2	75.8 259474	14	AC095692	Rattus no
c 214	18.2	75.8 261710	14	AC107431	Rattus no
c 215	18.2	75.8 264661	14	AC094217	Rattus no
c 216	18.2	75.8 269985	14	AC158120	Mus muscu
c 217	18.2	75.8 303506	14	AC114691	Rattus no
c 218	18.2	75.8 313264	14	AC023053	Homo sapi
c 219	18.2	75.8 335694	14	BX571984	Danio rer
c 220	18	75.0 143957	8	AL356313	Human DNA
c 221	18	75.0 155268	9	AC132332	Mus muscu
c 222	18	75.0 168679	14	AC150906	Pan trogl
c 223	18	75.0 173526	14	CT010587	Mus muscu
c 224	18	75.0 184696	9	AC160029	Mus muscu
c 225	18	75.0 194675	9	AC154790	Mus muscu
c 226	18	75.0 235349	14	AC109855	Rattus no
c 227	17.8	74.2 861	10	CNS06HX6	T3 end of
c 228	17.8	74.2 1142	8	BC094701	Homo sapi
c 229	17.8	74.2 1573	6	CQ714638	Sequence
c 230	17.8	74.2 1621	5	CR733107	Gallus ga
c 231	17.8	74.2 1863	6	AX695697	Sequence
c 232	17.8	74.2 1863	11	AY335690	Synthetic
c 233	17.8	74.2 2826	9	BC003799	Mus muscu
c 234	17.8	74.2 2844	6	AX306102	Sequence
c 235	17.8	74.2 2844	6	AX306102	Sequence
c 236	17.8	74.2 4282	9	MMTCA3G	Mus muscu
c 237	17.8	74.2 4366	6	CS032867	Sequence

238	17.8	74.2	4366	6	CS041819	CS041819 Sequence	C 311	17.8	74.2	198641	9	AC149586	AC149586 Mus muscu
239	17.8	74.2	4366	6	CS129146	CS129146 Sequence	C 312	17.8	74.2	198729	8	HS18316	AL449983 Homo sapi
240	17.8	74.2	4366	6	AX659696	AX659696 Sequence	313	17.8	74.2	199003	14	AC164353	AC164353 Bos tauru
241	17.8	74.2	4366	6	HUMLYK	D13720 Homo sapien	314	17.8	74.2	199041	14	CR848788	CR848788 Danio rer
242	17.8	74.2	4839	6	CS0591446	CS0591446 Sequence	C 315	17.8	74.2	204318	5	BX005374	BX005374 Zebrafish
243	17.8	74.2	4883	6	CS131092	CS131092 Sequence	C 316	17.8	74.2	206023	14	AC146657	AC146657 Otolomur
244	17.8	74.2	5854	2	DHRSR333	X81207 D.melanogas	317	17.8	74.2	209506	9	AC122842	AC122842 Mus muscu
245	17.8	74.2	5869	8	AB209622	AB209622 Homo sapi	318	17.8	74.2	211897	9	AC118500	AC118500 Rattus no
246	17.8	74.2	6381	6	CS036862	CS036862 Sequence	319	17.8	74.2	215241	9	AL662823	AL662823 Mouse DNA
247	17.8	74.2	6381	6	CS045814	CS045814 Sequence	320	17.8	74.2	216252	14	AC128547	AC128547 Rattus no
248	17.8	74.2	6381	6	AX587575	AX587575 Sequence	321	17.8	74.2	217521	14	AC016047	AC016047 Homo sapi
249	17.8	74.2	6381	6	S65186	S65186 EMT-T-cell-	C 322	17.8	74.2	220713	9	AC025047	AC025047 Mus muscu
250	17.8	74.2	6382	6	CS129259	CS129259 Sequence	C 323	17.8	74.2	223780	14	AC109849	AC109849 Rattus no
251	17.8	74.2	6383	6	AX330963	AX330963 Sequence	C 324	17.8	74.2	227958	14	AC095293	AC095293 Rattus no
252	17.8	74.2	6383	6	AX925612	AX925612 Sequence	325	17.8	74.2	228004	14	AC094278	AC094278 Rattus no
253	17.8	74.2	6383	8	HUMTKTCS	L10717 Homo sapien	326	17.8	74.2	234011	14	AC118412	AC118412 Rattus no
254	17.8	74.2	6383	8	AF134119	AF134119 Mus muscu	327	17.8	74.2	234810	14	AC105654	AC105654 Rattus no
255	17.8	74.2	34700	14	AC019929	AC019929 Drosophil	328	17.8	74.2	240425	9	CNS07YOT	AL713839 Mus muscu
256	17.8	74.2	3667	9	AL731863	AL731863 Mouse DNA	C 329	17.8	74.2	241883	14	AC133445	AC133445 Rattus no
257	17.8	74.2	78529	14	AC012807	AC012807 Drosophil	C 330	17.8	74.2	247025	14	AC108327	AC108327 Rattus no
258	17.8	74.2	86751	8	AC067728	AC067728 Homo sapi	C 331	17.8	74.2	249269	14	AC128728	AC128728 Rattus no
259	17.8	74.2	89117	14	AC006407	AC006407 Homo sapi	C 332	17.8	74.2	250840	14	AC127193	AC127193 Rattus no
260	17.8	74.2	92340	15	AC149267	AC149267 Solanum d	C 333	17.8	74.2	251564	14	AC125698	AC125698 Rattus no
261	17.8	74.2	92563	6	AX958695	AX958695 Sequence	C 334	17.8	74.2	253877	14	AC037236	AC037236 Rattus no
262	17.8	74.2	95357	15	AX350711	AX350711 Stenobriu	C 335	17.8	74.2	256944	14	AC096512	AC096512 Rattus no
263	17.8	74.2	105489	8	AC093894	AC093894 Homo sapi	336	17.8	74.2	260665	14	AC113858	AC113858 Rattus no
264	17.8	74.2	110000	1	CP000107_11	Continuation (12 o	337	17.8	74.2	265001	14	AC121746	AC121746 Rattus no
265	17.8	74.2	110000	1	CR522870_05	Continuation (6 of	C 338	17.8	74.2	267779	14	AC112826	AC112826 Rattus no
266	17.8	74.2	110000	1	AP006841_44	Continuation (45 o	C 339	17.8	74.2	271725	14	AC116298	AC116298 Rattus no
267	17.8	74.2	110000	15	AP008210_237	Continuation (238	340	17.8	74.2	275838	14	AL627428	AL627428 Mus muscu
268	17.8	74.2	122890	15	AP008210_238	Continuation (239	341	17.8	74.2	280915	14	AC112104	AC112104 Rattus no
269	17.8	74.2	122890	15	AP008210_238	Continuation (239	342	17.8	74.2	281203	14	AC132748	AC132748 Rattus no
270	17.8	74.2	129489	9	AL713860	AL713860 Mouse DNA	C 343	17.8	74.2	290433	14	AC111255	AC111255 Rattus no
271	17.8	74.2	130515	9	AC117195	AC117195 Mus muscu	344	17.8	74.2	290970	2	AE003445	AE003445 Drosophil
272	17.8	74.2	138613	8	AC092538	AC092538 Homo sapi	345	17.8	74.2	294542	2	AE003519	AE003519 Drosophil
273	17.8	74.2	140739	8	AP005432	AP005432 Homo sapi	C 346	17.8	74.2	337344	6	Q0869869	Q0869869 Sequence
274	17.8	74.2	142576	8	AC010609	AC010609 Homo sapi	347	17.6	73.3	1226	15	AC1383240	AC1383240 Glycine m
275	17.8	74.2	143148	9	AL607034	AL607034 Mouse DNA	C 348	17.6	73.3	1226	15	SCA243214	SCA243214 Saccharomy
276	17.8	74.2	145594	9	AL645753	AL645753 Mouse DNA	C 349	17.6	73.3	1226	15	SMO243215	SMO243215 Sacchro
277	17.8	74.2	148352	14	AC109813	AC109813 Homo sapi	C 350	17.6	73.3	1235	15	SPA243220	SPA243220 Saccharom
278	17.8	74.2	148508	14	AC027795	AC027795 Homo sapi	351	17.6	73.3	1351	15	DQ130087	DQ130087 Saccharom
279	17.8	74.2	150488	8	AL359392	AL359392 Human DNA	352	17.6	73.3	2202	5	BC096813	BC096813 Danio rer
280	17.8	74.2	156939	14	OSJUN00030	AL606591 Oryza sat	C 353	17.6	73.3	2691	9	MMU250719	MMU250719 Mus muscu
281	17.8	74.2	158391	14	AC008023	AC008023 Homo sapi	354	17.6	73.3	6706	15	WHU250719	WHU250719 Mus muscu
282	17.8	74.2	160155	15	OSJUN00232	AL731582 Oryza sat	C 355	17.6	73.3	37350	8	AC0154027	AC0154027 Wheat gene
283	17.8	74.2	160392	8	AC104236	AC104236 Homo sapi	C 356	17.6	73.3	41480	8	AC018917	AC018917 Homo sapi
284	17.8	74.2	161393	9	AL645966	AL645966 Mouse DNA	C 357	17.6	73.3	41702	8	HSAC000366	HSAC000366 Human cos
285	17.8	74.2	161765	8	AC113190	AC113190 Homo sapi	358	17.6	73.3	61635	8	AC110812	AC110812 Homo sapi
286	17.8	74.2	163472	14	AC155568	AC155568 Zea mays	C 359	17.6	73.3	107180	15	AC136504	AC136504 Medicago
287	17.8	74.2	164736	8	AC105275	AC105275 Homo sapi	C 360	17.6	73.3	108937	8	AC098593	AC098593 Homo sapi
288	17.8	74.2	165637	9	AC154287	AC154287 Mus muscu	361	17.6	73.3	87484	14	AC149158	AC149158 Xenopus t
289	17.8	74.2	165987	5	AC147883	AC147883 Xenopus t	C 362	17.6	73.3	92563	14	AC161970	AC161970 Bos tauru
290	17.8	74.2	166971	8	AL157812	AL157812 Human DNA	363	17.6	73.3	94971	8	AC127893	AC127893 Homo sapi
291	17.8	74.2	167908	8	AC122177	AC122177 Homo sapi	364	17.6	73.3	95521	14	AC134499	AC134499 Rattus no
292	17.8	74.2	168997	14	AC021927	AC021927 Homo sapi	365	17.6	73.3	107180	15	AC136504	AC136504 Medicago
293	17.8	74.2	169043	14	AC018428	AC018428 Homo sapi	366	17.6	73.3	110000	1	CR522870_12	CR522870_12 Continuation (13 o
294	17.8	74.2	169132	9	AC124712	AC124712 Mus muscu	C 367	17.6	73.3	110000	1	CP000020_09	CP000020_09 Continuation (10 o
295	17.8	74.2	169149	14	AL928724	AL928724 Danio rer	368	17.6	73.3	110000	14	AC105643_2	AC105643_2 Continuation (3 of
296	17.8	74.2	170301	14	AC069487	AC069487 Homo sapi	369	17.6	73.3	110000	14	AC105643_4	AC105643_4 Continuation (5 of
297	17.8	74.2	176947	8	HS170A21	Z82189 Human DNA s	370	17.6	73.3	110000	14	AC120578_1	AC120578_1 Continuation (2 of
298	17.8	74.2	178628	2	AC009385	AC009385 Drosophil	C 371	17.6	73.3	110000	15	AE016817_02	AE016817_02 Continuation (3 of
299	17.8	74.2	181075	9	CNS07Y2	AL713885 Mus muscu	C 372	17.6	73.3	110000	15	AP008208_196	AP008208_196 Continuation (197
300	17.8	74.2	181278	14	AC013328	AC013328 Homo sapi	C 373	17.6	73.3	110000	15	AP008209_307	AP008209_307 Continuation (308
301	17.8	74.2	181755	14	AC015758	AC015758 Homo sapi	C 374	17.6	73.3	112648	8	AL356603	AL356603 Human DNA
302	17.8	74.2	182635	2	AC023729	AC023729 Drosophil	C 375	17.6	73.3	112907	9	AL670865	AL670865 Mouse DNA
303	17.8	74.2	183137	8	AC008734	AC008734 Homo sapi	376	17.6	73.3	115224	8	AL356234	AL356234 Human DNA
304	17.8	74.2	184511	14	AC159155	AC159155 Otolomur	377	17.6	73.3	129832	8	AC062029	AC062029 Homo sapi
305	17.8	74.2	187230	2	AC023719	AC023719 Drosophil	378	17.6	73.3	130336	8	AC006346	AC006346 Homo sapi
306	17.8	74.2	187389	14	AC121052	AC121052 Rattus no	379	17.6	73.3	138140	9	AL831760	AL831760 Mouse DNA
307	17.8	74.2	187973	2	AC009380	AC009380 Drosophil	380	17.6	73.3	138603	14	AC034182	AC034182 Homo sapi
308	17.8	74.2	189510	5	CR391977	CR391977 Zebrafish	C 381	17.6	73.3	139677	8	AC008914	AC008914 Homo sapi
309	17.8	74.2	192814	8	AC007597	AC007597 Homo sapi	382	17.6	73.3	141407	14	BX936452	BX936452 Danio rer
310	17.8	74.2	196755	8	AC023826	AC023826 Homo sapi	C 383	17.6	73.3	142552	8	HS591B8	AL035410 Human DNA

384	17.6	73.3	145086	15	AP005798	Oryza sat	CR847988	Danio rer
385	17.6	73.3	149552	14	AC141654	Rattus no	AF110520	Mus muscu
c 386	17.6	73.3	150337	14	AC145416	Felis cat	AL773520	Mus muscu
c 387	17.6	73.3	151450	8	AC108679	Homo sapi	AC058821	Homo sapi
388	17.6	73.3	151989	9	AC123828	Mus muscu	AC106161	Rattus no
389	17.6	73.3	152529	8	AC123828	Homo sapi	AC073806	Mus muscu
c 390	17.6	73.3	152574	14	AC161727	Loxodonta	AC073742	Mus muscu
c 391	17.6	73.3	152944	5	AC146797	Xenopus t	AC152647	Bos tauru
c 392	17.6	73.3	155363	14	AC157620	Papio anu	AC154603	Mus muscu
c 393	17.6	73.3	155945	5	CR536621	Zebraphish	AC152189	Bos tauru
394	17.6	73.3	156420	14	AC158215	Mus muscu	AC146610	Mus muscu
c 395	17.6	73.3	156594	14	AC161745	Rhinoloph	AC125594	Rattus no
c 396	17.6	73.3	157970	15	AC092556	Oryza sat	AC125594	Rattus no
c 397	17.6	73.3	158730	14	AC093313	Trypanoso	AC125880	Bos tauru
398	17.6	73.3	159703	14	AL513129	Homo sapi	AC118249	Mus muscu
399	17.6	73.3	159909	14	AC019352	Homo sapi	AC139671	Mus muscu
c 400	17.6	73.3	160530	14	AC025631	Homo sapi	AC099219	Rattus no
c 401	17.6	73.3	160571	14	CR855312	Danio rer	AC099219	Rattus no
c 402	17.6	73.3	164816	14	AC060785	Homo sapi	AC099219	Rattus no
c 403	17.6	73.3	164883	9	AL831756	Mouse DNA	AC099219	Rattus no
c 404	17.6	73.3	166036	14	AC041013	Homo sapi	AC099219	Rattus no
c 405	17.6	73.3	166088	5	CR847892	Danio rer	AC099219	Rattus no
c 406	17.6	73.3	167351	14	CR847892	Danio rer	AC099219	Rattus no
c 407	17.6	73.3	167817	14	AC025533	Homo sapi	AC099219	Rattus no
c 408	17.6	73.3	168289	5	CR759902	Zebraphish	AC099219	Rattus no
c 409	17.6	73.3	168825	9	AC157653	Mus muscu	AC099219	Rattus no
c 410	17.6	73.3	169149	8	AL445930	Human DNA	AC099219	Rattus no
c 411	17.6	73.3	170008	8	AC117391	Homo sapi	AC099219	Rattus no
c 412	17.6	73.3	170204	8	AC018688	Homo sapi	AC099219	Rattus no
c 413	17.6	73.3	170299	14	AC116838	Mus muscu	AC099219	Rattus no
c 414	17.6	73.3	172445	8	AL355592	Human DNA	AC099219	Rattus no
c 415	17.6	73.3	172947	14	AC103235	Mus muscu	AC099219	Rattus no
c 416	17.6	73.3	173053	9	AL365534	Mouse DNA	AC099219	Rattus no
c 417	17.6	73.3	173479	8	AC097520	Homo sapi	AC099219	Rattus no
c 418	17.6	73.3	174854	14	CR595026	Danio rer	AC099219	Rattus no
c 419	17.6	73.3	175952	14	AC009195	Homo sapi	AC099219	Rattus no
c 420	17.6	73.3	176965	14	AC148164	Zebraphish	AC099219	Rattus no
c 421	17.6	73.3	177185	8	AC016632	Homo sapi	AC099219	Rattus no
c 422	17.6	73.3	177829	14	AC060829	Homo sapi	AC099219	Rattus no
c 423	17.6	73.3	179997	14	AC093338	Mus muscu	AC099219	Rattus no
c 424	17.6	73.3	180038	14	AC068393	Homo sapi	AC099219	Rattus no
c 425	17.6	73.3	180192	14	AC059810	Homo sapi	AC099219	Rattus no
c 426	17.6	73.3	180348	8	AF265340	Homo sapi	AC099219	Rattus no
c 427	17.6	73.3	180573	14	AC164877	Mus muscu	AC099219	Rattus no
c 428	17.6	73.3	180613	5	CR255956	Zebraphish	AC099219	Rattus no
c 429	17.6	73.3	181058	14	AC068118	Homo sapi	AC099219	Rattus no
c 430	17.6	73.3	182126	14	AC016639	Homo sapi	AC099219	Rattus no
c 431	17.6	73.3	183192	14	AC149273	Mus muscu	AC099219	Rattus no
c 432	17.6	73.3	184057	14	AC160008	Bos tauru	AC099219	Rattus no
c 433	17.6	73.3	184264	14	AC118233	Mus muscu	AC099219	Rattus no
c 434	17.6	73.3	185196	14	AC023939	Mus muscu	AC099219	Rattus no
c 435	17.6	73.3	189059	8	AC106707	Homo sapi	AC099219	Rattus no
c 436	17.6	73.3	189473	14	AC151371	Actus nan	AC099219	Rattus no
c 437	17.6	73.3	190737	14	AC019143	Homo sapi	AC099219	Rattus no
c 438	17.6	73.3	190940	14	AC119062	Pan trogl	AC099219	Rattus no
c 439	17.6	73.3	192167	9	AC166325	Mus muscu	AC099219	Rattus no
c 440	17.6	73.3	192406	14	AC021248	Homo sapi	AC099219	Rattus no
c 441	17.6	73.3	192891	5	CR2933515	Zebraphish	AC099219	Rattus no
c 442	17.6	73.3	194144	5	AC148460	Xenopus t	AC099219	Rattus no
c 443	17.6	73.3	194642	8	AC090163	Homo sapi	AC099219	Rattus no
c 444	17.6	73.3	196102	9	AC124195	Mus muscu	AC099219	Rattus no
c 445	17.6	73.3	196149	14	AC153703	Bos tauru	AC099219	Rattus no
c 446	17.6	73.3	197461	14	AC134814	Rattus no	AC099219	Rattus no
c 447	17.6	73.3	197693	14	AC146832	Bos tauru	AC099219	Rattus no
c 448	17.6	73.3	198181	14	CR855385	Danio rer	AC099219	Rattus no
c 449	17.6	73.3	199827	9	AC137110	Mus muscu	AC099219	Rattus no
c 450	17.6	73.3	201215	14	AC161232	Mus muscu	AC099219	Rattus no
c 451	17.6	73.3	201367	14	AC156571	Mus muscu	AC099219	Rattus no
c 452	17.6	73.3	203030	9	AL603792	Mouse DNA	AC099219	Rattus no
c 453	17.6	73.3	204077	9	AC103407	Mus muscu	AC099219	Rattus no
c 454	17.6	73.3	205900	9	AC103610	Mus muscu	AC099219	Rattus no
c 455	17.6	73.3	207330	9	AC144621	Mus muscu	AC099219	Rattus no
c 456	17.6	73.3	208252	14	AC159875	Bos tauru	AC099219	Rattus no

ALIGNMENTS

RESULT 1	BV004378	570 bp	DNA	linear	STS 07-SEP-2002				
LOCUS	BV004378	570 bp	DNA	linear	STS 07-SEP-2002				
DEFINITION	S208P6368R2.T0 129S1/SvImJ Mus musculus STS genomic, sequence tagged site.								
ACCESSION	BV004378								
VERSION	BV004378.1	GI:22757454							
KEYWORDS	STS.								
SOURCE	Mus musculus (house mouse)								
ORGANISM	Mus musculus								
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.								
AUTHORS	1 (bases 1 to 570)								
TITLE	Wade, C.								
JOURNAL	Polymorphism Structure in the Mouse								
COMMENT	Unpublished (2002)								
Contact: Kerstin Lindblad-Toh									
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Fax: 6172580903									

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2964.92 Seconds
(without alignments)
378.725 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24
Sequence: 1 gacatccctacaaagagaagat 24

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:*

1: gb_est1:*

2: gb_est2:*

3: gb_est3:*

4: gb_est4:*

5: gb_est5:*

6: gb_est6:*

7: gb_est7:*

8: gb_est8:*

9: gb_gss1:*

10: gb_gss2:*

11: gb_gss3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	22.4	93.3	485	6	CA721426 wdk9n.pk0
2	22.4	93.3	670	3	BK296872 BJ296872
3	22.4	93.3	1147	7	CK166638 FGAS05080
4	22.4	93.3	1149	7	CK167615 FGAS05201
5	22.4	93.3	1160	7	CK167307 FGAS05163
6	22.4	93.3	1198	7	CK168204 FGAS05270
7	21.4	89.2	284	6	CA624207 wlln.pk01
8	21.4	89.2	526	1	AJ610886 AJ610886
9	21.4	89.2	593	3	BK218387 BJ218387
10	21.4	89.2	664	2	BG905270 TAlr1138E
11	21.4	89.2	696	3	BM137990 WHE0479.A
12	21.4	89.2	727	3	BK220643 BJ220643
13	21.4	89.2	879	7	CK155817 FGAS03668
14	21.4	89.2	879	7	CK156289 FGAS03720
15	20.8	86.7	367	5	BQ762109 EBP101.SQ
16	20.8	86.7	438	1	AU089946 AU089946
17	20.8	86.7	443	1	AU089907 AU089907
18	20.8	86.7	462	8	CX629678 GCM003B24
19	20.8	86.7	515	6	C8624298 HH04G02U
20	20.8	86.7	528	1	AV942818 AV942818
21	20.8	86.7	543	5	BU985874 HF08007r
22	20.8	86.7	568	5	CA001228 HS18N04u

CA001528	HS17M10u	568	86.7	20.8	23
CA010201	WHE3867.H	613	86.7	20.8	24
CV057250	BNEL25f6	615	86.7	20.8	c 25
BJ468205	BJ468205	620	86.7	20.8	26
BJ465087	BJ465087	623	86.7	20.8	c 27
AV945607	AV945607	678	86.7	20.8	28
DN186674	HO28K09w	700	86.7	20.8	29
DR732145	FGAS07806	892	86.7	20.8	30
CK157744	FGAS03890	894	86.7	20.8	31
CM164136	104_572_1	669	82.5	19.8	c 32
BZ346741	hv83508.5	696	82.5	19.8	c 33
CK907882	JG1_CAA6	796	82.5	19.8	c 34
BG851042	1024030B0	1527	80.8	19.4	c 35
CR508908	mtch4-7F7R	391	80.0	19.2	c 36
BP874046	BP874046	656	80.0	19.2	c 37
CD453275	WHE1817-1	721	80.0	19.2	c 38
BI147572	602913013	751	80.0	19.2	c 39
BQ896781	AGENCOURT	1286	80.0	19.2	c 40
AZ350245	1M0087001	606	79.2	19	41
CZ577409	OA_BBa019	328	78.3	18.8	42
CR902932	SUB_scroF	376	78.3	18.8	43
BQ113307	EST59883	485	78.3	18.8	44
CD603975	RZ151A1F0	500	78.3	18.8	45
C0910851	BJ03011G1	520	78.3	18.8	46
CJ372257	CJ372257	558	78.3	18.8	47
CK754034	pan01-4ms	615	78.3	18.8	c 48
CJ356520	CJ356520	757	78.3	18.8	c 49
DU062970	75731.Tom	773	78.3	18.8	c 50
CJ358965	CJ358965	780	78.3	18.8	c 51
CC480038	CH240_307	800	78.3	18.8	c 52
CD559375	AGENCOURT	810	78.3	18.8	53
CJ387420	CJ387420	830	78.3	18.8	c 54
CNS025Y5	Tetraodon	866	78.3	18.8	c 55
CJ387103	CJ387103	881	78.3	18.8	c 56
CZ386701	ZMMBF0162	901	78.3	18.8	c 57
CL113912	ISB1-59E1	918	78.3	18.8	58
CNS05KF7	Tetraodon	1086	78.3	18.8	c 59
BX682331	BX682331	319	76.7	18.4	60
BX254569	BX254569	324	76.7	18.4	61
CV038845	4136037.B	475	76.7	18.4	c 62
CNS00NXZ	Arabidops	551	76.7	18.4	c 63
BU477867	60384B384	653	76.7	18.4	c 64
CZ838744	OC_Ba022	690	76.7	18.4	65
BX255740	BX255740	692	76.7	18.4	c 66
CK827335	zmr-subl_0	786	76.7	18.4	c 67
BU481901	603471186	787	76.7	18.4	c 68
CNS026FT	Tetraodon	1017	76.7	18.4	69
CC185175	CH261-142	1151	76.7	18.4	70
BG762454	602733891	1203	76.7	18.4	71
B10156	F5A12-T7.IG	1224	76.7	18.4	c 72
EX815195	Arabidops	2407	76.7	18.4	c 73
T89914	yellow1.r1	200	75.8	18.2	74
AA084792	zn13a07.r	222	75.8	18.2	c 75
BI007096	QV3-RT006	225	75.8	18.2	c 76
AJ685765	AJ685765	247	75.8	18.2	c 77
AQ069239	HS_2253.B	261	75.8	18.2	c 78
DN490512	UT57PE11	266	75.8	18.2	79
AA326659	EST29869	310	75.8	18.2	80
AW884337	QV3-OT006	325	75.8	18.2	81
AA558024	n128f12.s	344	75.8	18.2	c 82
AV801140	AV801140	394	75.8	18.2	c 83
AQ828878	HS_4809.A	438	75.8	18.2	84
CNS957910	5A10_1001	442	75.8	18.2	85
CNS957910	5A10_1001	458	75.8	18.2	86
CV434048	RT3103.Ch	463	75.8	18.2	c 87
BB823337	BB823337	462	75.8	18.2	c 88
CV376388	HS_2162.B	500	75.8	18.2	89
CV354427	ME4-BN03B	511	75.8	18.2	90
BE132826	uf36902.x	512	75.8	18.2	91
BM968906	UT-CF-DUI	519	75.8	18.2	92
CV650857	OA_Aba019	525	75.8	18.2	c 93
CO107478	GR_EB003	531	75.8	18.2	c 94
CC674858	Tetraodon	542	75.8	18.2	c 95

C 96	18.2	75.8	550	7	CO493444	G.h.fbr-s	169	74.2	369	5	BQ519463	BQ519463
C 97	18.2	75.8	551	10	CE518856	tigr-g8s-	170	74.2	381	1	AI851059	AI851059
C 98	18.2	75.8	559	3	BM720119	UI-E-E00-	C 171	74.2	381	1	BI319824	BI319824
C 99	18.2	75.8	562	9	BH034913	RPCI-24-3	C 172	74.2	398	6	CA564169	CA564169
C 100	18.2	75.8	570	6	AQ334273	HS 5005.A	C 173	74.2	403	3	BP382860	BP382860
C 101	18.2	75.8	576	6	CD819791	BN20.050C	C 174	74.2	431	3	BB777517	BB777517
C 102	18.2	75.8	598	9	AQ585834	RPCI-11-4	C 175	74.2	433	5	BK646272	BK646272
C 103	18.2	75.8	603	9	AZ808856	2M0072P03	C 176	74.2	433	5	AQ687918	AQ687918
C 104	18.2	75.8	609	1	AW187927	BNLGH1129	C 177	74.2	443	1	AW323987	AW323987
C 105	18.2	75.8	612	9	BB634855	BB634855	C 178	74.2	468	7	CO235243	CO235243
C 106	18.2	75.8	613	9	BH034142	RPCI-24-3	C 179	74.2	468	7	AQ770958	AQ770958
C 107	18.2	75.8	618	10	CM323829	104.818.1	C 180	74.2	472	2	BE656460	BE656460
C 108	18.2	75.8	623	2	BF398395	UI-R-RS2-	C 181	74.2	472	2	BE632078	BE632078
C 109	18.2	75.8	643	10	BX133185	Danio rer	C 182	74.2	490	2	BE976254	BE976254
C 110	18.2	75.8	652	2	BF324417	ZM24E05.Y	C 183	74.2	495	11	TA55F03Q	TA55F03Q
C 111	18.2	75.8	653	10	CL456916	BM24E05.Y	C 184	74.2	502	2	BE335757	BE335757
C 112	18.2	75.8	655	10	CL315115	mtH2-133E	C 185	74.2	509	5	BH974799	BH974799
C 113	18.2	75.8	656	10	CL323830	104.818.1	C 186	74.2	514	9	BH744544	BH744544
C 114	18.2	75.8	658	11	CR186086	Reverse	C 187	74.2	533	2	BE978424	BE978424
C 115	18.2	75.8	660	9	AZ333736	1M0062018	C 188	74.2	536	9	AQ463474	AQ463474
C 116	18.2	75.8	668	10	CZ012271	OK-BBA009	C 189	74.2	563	5	BQ566954	BQ566954
C 117	18.2	75.8	671	6	CD292800	StrPu536.	C 190	74.2	572	11	CO705474	CO705474
C 118	18.2	75.8	673	10	AG144935	Pan trogl	C 191	74.2	582	7	CO240588	CO240588
C 119	18.2	75.8	682	9	AZ316624	1M0034P17	C 192	74.2	585	7	CK434495	CK434495
C 120	18.2	75.8	689	9	CM412008	170005322	C 193	74.2	599	5	BQ564217	BQ564217
C 121	18.2	75.8	692	9	AZ660026	1M0537B20	C 194	74.2	599	6	CF162881	CF162881
C 122	18.2	75.8	694	9	CC943992	BO1B164TF	C 195	74.2	600	2	BG806913	BG806913
C 123	18.2	75.8	696	10	AG179532	Pan trogl	C 196	74.2	601	7	CO472697	CO472697
C 124	18.2	75.8	707	10	CE329112	tigr-g8s-	C 197	74.2	606	7	CK438107	CK438107
C 125	18.2	75.8	711	9	CE165562	tigr-g8s-	C 198	74.2	611	7	CK437894	CK437894
C 126	18.2	75.8	720	2	BE585516	ES76PT7	C 199	74.2	612	2	BG409677	BG409677
C 127	18.2	75.8	721	9	AZ341582	1M0074102	C 200	74.2	618	9	BH267187	BH267187
C 128	18.2	75.8	722	11	CT021897	KBH132C2	C 201	74.2	626	7	CK444307	CK444307
C 129	18.2	75.8	725	9	BZ189739	CH230-390	C 202	74.2	630	1	AA186149	AA186149
C 130	18.2	75.8	729	9	AZ808854	2M0072P01	C 203	74.2	631	9	BH692356	BH692356
C 131	18.2	75.8	731	11	CR186976	Reverse s	C 204	74.2	638	7	CO232973	CO232973
C 132	18.2	75.8	732	10	CL1778294	OR-BBA009	C 205	74.2	639	7	CO243712	CO243712
C 133	18.2	75.8	733	10	CL149398	104.330.1	C 206	74.2	652	7	CK436326	CK436326
C 134	18.2	75.8	743	7	CO520918	3530.1.13	C 207	74.2	658	2	BH626715	BH626715
C 135	18.2	75.8	748	8	CK612270	GABR1.1.B	C 208	74.2	661	9	CC318386	CC318386
C 136	18.2	75.8	748	11	CR277547	Reverse s	C 209	74.2	667	6	CD773692	CD773692
C 137	18.2	75.8	754	9	BH723273	BOMW83TF	C 210	74.2	673	9	BZ025430	BZ025430
C 138	18.2	75.8	763	3	BI886800	ZF637-1-0	C 211	74.2	675	1	AA118764	AA118764
C 139	18.2	75.8	774	7	AF010872	AF010872	C 212	74.2	676	6	CF517111	CF517111
C 140	18.2	75.8	776	7	CO113445	GR-EB013	C 213	74.2	676	7	CV674823	CV674823
C 141	18.2	75.8	785	9	BH513957	BOHJ26TF	C 214	74.2	678	6	CA262892	CA262892
C 142	18.2	75.8	785	10	CL740191	OR-BBA007	C 215	74.2	678	7	CO243413	CO243413
C 143	18.2	75.8	789	1	AI965928	sc79h06.Y	C 216	74.2	681	9	BZ008561	BZ008561
C 144	18.2	75.8	798	7	CO108989	GR-EB004	C 217	74.2	687	10	AG339638	AG339638
C 145	18.2	75.8	803	10	CG120802	PuF280TF	C 218	74.2	690	8	DR562443	DR562443
C 146	18.2	75.8	825	6	CA939398	ru13908.Y	C 219	74.2	691	9	BH504992	BH504992
C 147	18.2	75.8	841	9	CC690730	OGULV48TH	C 220	74.2	684	9	BH702912	BH702912
C 148	18.2	75.8	851	10	CZ221472	AI9A-aag0	C 221	74.2	685	3	BM943635	BM943635
C 149	18.2	75.8	851	9	CC690737	OGULV48TV	C 222	74.2	685	7	CF950211	CF950211
C 150	18.2	75.8	871	7	CV288651	aof01-16m	C 223	74.2	686	9	BH927100	BH927100
C 151	18.2	75.8	875	10	CG048794	PuFNF84TB	C 224	74.2	687	10	AG339638	AG339638
C 152	18.2	75.8	877	9	CC253765	CH261-106	C 225	74.2	690	8	DR562443	DR562443
C 153	18.2	75.8	902	10	CL498819	SAIL.660	C 226	74.2	691	9	BZ048560	BZ048560
C 154	18.2	75.8	932	9	BZ792547	PUGBR38TD	C 227	74.2	692	9	BH268045	BH268045
C 155	18.2	75.8	937	9	BZ792543	PUGBR38TB	C 228	74.2	694	9	BZ025317	BZ025317
C 156	18.2	75.8	975	10	CG120800	PuF280TB	C 229	74.2	696	9	BZ003716	BZ003716
C 157	18.2	75.8	1124	10	CL026679	CH216-23K	C 230	74.2	698	1	AJ778792	AJ778792
C 158	18.2	75.8	1619	2	BG259623	602378763	C 231	74.2	701	9	BZ017784	BZ017784
C 159	18.2	75.8	627	10	CM339942	104.840.1	C 232	74.2	706	6	CD808328	CD808328
C 160	18.2	75.8	655	10	CE843470	tigr-g8s-	C 233	74.2	707	10	CE324672	CE324672
C 161	18.2	75.8	659	9	AZ489051	1M0319G07	C 234	74.2	706	6	CD808328	CD808328
C 162	18.2	75.8	689	10	CM339941	104.840.1	C 235	74.2	710	9	BH653549	BH653549
C 163	18.2	75.8	698	9	AZ018708	Mus muscu	C 236	74.2	711	9	BH466930	BH466930
C 164	18.2	75.8	714	10	AG371697	Reverse s	C 237	74.2	717	9	AG322647	AG322647
C 165	18.2	75.8	819	11	CR221014	Reverse s	C 238	74.2	723	10	BG613146	BG613146
C 166	17.8	74.2	77	10	CM838697	GT6362.Ds	C 239	74.2	731	9	BZ081489	BZ081489
C 167	17.8	74.2	255	2	BE244067	TCRAP1E04	C 240	74.2	732	10	AJ832840	AJ832840
C 168	17.8	74.2	340	1	AW505115	UI-HF-BN0	C 241	74.2	736	7	CO227855	CO227855

242	17.8	74.2	739	9	BH672136	BOHKC59TF
243	17.8	74.2	741	9	CC942103	BOIGX61TR
244	17.8	74.2	745	9	BH438872	BOGHO77TF
245	17.8	74.2	758	8	DR565543	WS0329.C2
246	17.8	74.2	759	8	DR501093	WS02922.C
247	17.8	74.2	766	9	BH559644	BOGGZ22TF
248	17.8	74.2	768	9	BH730591	BONGV43TR
249	17.8	74.2	769	9	BZ491580	BONFA31TR
250	17.8	74.2	771	1	AI3322918	mt68C07.Y
251	17.8	74.2	771	9	BZ498344	BONCU79TR
252	17.8	74.2	772	9	BH688701	BOHST96TF
253	17.8	74.2	774	11	CR513531	meth4-42J1
254	17.8	74.2	777	6	CB319253	AGENCOURT
255	17.8	74.2	777	9	BZ071267	l1u13a10.
256	17.8	74.2	781	9	BH495668	BOHKX48TR
257	17.8	74.2	789	9	BH695988	BOHYB44TR
258	17.8	74.2	794	7	CK861287	32351.In
259	17.8	74.2	794	7	CO484620	GQ0201.B3
260	17.8	74.2	802	7	CO485495	GQ0201.TB
261	17.8	74.2	805	9	BH536875	BOGDQ78TR
262	17.8	74.2	808	9	BZ487777	BONDNI6TF
263	17.8	74.2	817	7	CT002910	CT002910
264	17.8	74.2	820	10	DU095392	221358.To
265	17.8	74.2	829	6	CB956777	AGENCOURT
266	17.8	74.2	832	8	DR569538	WS02625.B
267	17.8	74.2	836	8	DR493527	WS02922.C
268	17.8	74.2	846	9	BH593460	BOGSK70TR
269	17.8	74.2	847	10	DU034840	17017.Tom
270	17.8	74.2	850	9	BZ494004	BONOA60TR
271	17.8	74.2	851	2	BG260738	602372317
272	17.8	74.2	853	7	CK097824	UB63PCP07
273	17.8	74.2	869	6	CF768278	CES004078
274	17.8	74.2	874	10	CZ374322	ZMMBF0131
275	17.8	74.2	887	7	CO256667	WS08025.B
276	17.8	74.2	888	8	DR562879	WS02626.C
277	17.8	74.2	893	10	CZ525004	GMW2-64J3
278	17.8	74.2	903	10	DU048931	148685.To
279	17.8	74.2	912	6	CD252091	AGENCOURT
280	17.8	74.2	915	2	BF120625	601758207
281	17.8	74.2	920	2	BF106671	601823141
282	17.8	74.2	940	6	CF265639	AGENCOURT
283	17.8	74.2	1008	9	BZ456183	BONHA26TF
284	17.8	74.2	1042	10	CZ373346	ZMMBF0129
285	17.8	74.2	1061	6	CF578858	AGENCOURT
286	17.8	74.2	1101	10	CNS000DJ7	AL071886.Drosophi1
287	17.8	74.2	1137	8	DN685378	CGX41-D08
288	17.8	74.2	1151	9	B09862	T16B8-Sp6.T
289	17.8	74.2	1157	9	CC260998	CC260998.CH261-166
290	17.8	74.2	1180	9	CC276989	CH261-22B
291	17.8	74.2	1426	10	AJ861524	Brassica
292	17.8	74.2	1788	10	AY399357	MSO sapi
293	17.8	74.2	1788	10	AY399358	Pan trogl
294	17.8	74.2	3279	4	AK034641	Mus muscu
295	17.6	73.3	355	9	AZ402076	IM0169P07
296	17.6	73.3	358	5	BX912340	BX912340
297	17.6	73.3	358	5	BH341225	CH230-51K
298	17.6	73.3	376	3	BP924452	BP924452
299	17.6	73.3	388	9	BZ301544	KD1327.q1
300	17.6	73.3	425	2	BF766618	IL2-CS004
301	17.6	73.3	441	9	AZ078097	RPCI-23-4
302	17.6	73.3	442	2	BE801010	sr08A08.Y
303	17.6	73.3	442	3	BI893595	sa168C07.
304	17.6	73.3	449	10	CES566931	CE566931.tigr-ges-
305	17.6	73.3	462	6	CA784007	sat92b12.
306	17.6	73.3	472	9	AZ643333	IM0506A17
307	17.6	73.3	474	3	BP924368	BP924368
308	17.6	73.3	477	10	CW766061	OG_BBA007
309	17.6	73.3	506	6	CF059753	QCS16D03.
310	17.6	73.3	511	2	BE805284	ss40e08.Y
311	17.6	73.3	515	5	BQ611961	ssap67f01.
312	17.6	73.3	517	9	AQ439215	HS_5054_B
313	17.6	73.3	517	9	BQ568450	Sheared_D
314	17.6	73.3	518	2	BF325060	su30809.Y
519	5	17.6	73.3	315	5	BU875699
524	1	17.6	73.3	316	5	AA178775
525	6	17.6	73.3	317	6	CD124915
526	1	17.6	73.3	318	6	AD214915
527	3	17.6	73.3	319	3	BU738951
531	3	17.6	73.3	320	3	BM519922
532	3	17.6	73.3	321	3	BM519922
534	1	17.6	73.3	322	1	BM794033
536	3	17.6	73.3	323	3	BI456749
537	3	17.6	73.3	324	3	BI469997
537	11	17.6	73.3	325	11	BM085714
542	3	17.6	73.3	326	3	AL459828
546	3	17.6	73.3	327	3	BI701607
549	2	17.6	73.3	328	2	BI894122
558	3	17.6	73.3	329	3	BF325416
564	1	17.6	73.3	330	1	BM177653
565	5	17.6	73.3	331	5	BI177653
566	5	17.6	73.3	332	5	AI856644
566	5	17.6	73.3	333	5	BM82507
567	10	17.6	73.3	334	10	BU835325
575	9	17.6	73.3	335	9	CE482441
576	5	17.6	73.3	336	5	AZ969390
576	5	17.6	73.3	337	5	BQ473176
576	5	17.6	73.3	338	5	BU084835
587	9	17.6	73.3	339	9	AZ558148
591	9	17.6	73.3	340	9	AQ285009
592	2	17.6	73.3	341	2	BZ842320
597	2	17.6	73.3	342	2	BE805273
601	2	17.6	73.3	343	2	BE346376
606	9	17.6	73.3	344	9	BE561257
609	10	17.6	73.3	345	10	CW392143
614	8	17.6	73.3	346	8	DR425598
617	2	17.6	73.3	347	2	BE800178
620	10	17.6	73.3	348	10	CW223026
625	7	17.6	73.3	349	7	CO504008
636	6	17.6	73.3	350	6	CO666246
640	7	17.6	73.3	351	7	CO504326
641	2	17.6	73.3	352	2	BF009995
641	9	17.6	73.3	353	9	BH326005
645	10	17.6	73.3	354	10	AG120013
649	8	17.6	73.3	355	8	CL183879
649	10	17.6	73.3	356	10	CL602901
652	7	17.6	73.3	357	7	CO506586
655	10	17.6	73.3	358	10	CW328193
658	10	17.6	73.3	359	10	CW62724
658	10	17.6	73.3	360	10	AG102318
658	10	17.6	73.3	361	10	AG133323
662	11	17.6	73.3	362	11	CR001510
668	9	17.6	73.3	363	9	AZ233824
671	10	17.6	73.3	364	10	AG096671
675	8	17.6	73.3	365	8	DR073505
680	9	17.6	73.3	366	9	AQ782369
681	9	17.6	73.3	367	9	BZ016035
681	8	17.6	73.3	368	8	BZ016035
691	8	17.6	73.3	369	8	DR272104
701	9	17.6	73.3	370	9	BZ010162
706	8	17.6	73.3	371	8	CG181159
709	2	17.6	73.3	372	2	BG155091
714	2	17.6	73.3	373	2	BG782216
715	10	17.6	73.3	374	10	CZ064616
723	9	17.6	73.3	375	9	BH984255
725	9	17.6	73.3	376	9	BZ719291
729	7	17.6	73.3	377	7	CJ369804
738	10	17.6	73.3	378	10	AG440849
740	10	17.6	73.3	379	10	CZ003346
744	8	17.6	73.3	380	8	DR426946
749	8	17.6	73.3	381	8	DR426946
751	10	17.6	73.3	382	10	CE721986
756	7	17.6	73.3	383	7	CK029430
757	7	17.6	73.3	384	7	CV641388
760	10	17.6	73.3	385	10	CZ431739
761	7	17.6	73.3	386	7	CV641805
764	10	17.6	73.3	387	10	CL164969
774	5	17.6	73.3	388	5	BU442238
783	7	17.6	73.3	389	7	CK109778
784	10	17.6	73.3	390	10	CV644716
788	7	17.6	73.3	391	7	CZ853244

C 388	17.6	73.3	793	5	B0254216	B0254216	603748248
C 389	17.6	73.3	793	9	BH459748	B0GPN13TF	BH459748
C 390	17.6	73.3	794	8	DN032389	JGI CAAR6	DN032389
C 391	17.6	73.3	794	8	DT071401	AGENCOURT	DT071401
C 392	17.6	73.3	805	8	CX0707044	gmrtdNSO	CX0707044
C 393	17.6	73.3	805	10	BX982384	Reverse s	BX982384
C 394	17.6	73.3	806	10	BX136379	Danio rer	BX136379
C 395	17.6	73.3	811	8	DN028047	JGI CAAR6	DN028047
C 396	17.6	73.3	813	10	D0220031	CX020031	277604
C 397	17.6	73.3	816	8	CX022450	EST940769	CX022450
C 398	17.6	73.3	825	8	CX711896	gmrtdNSO	CX711896
C 399	17.6	73.3	832	9	BZ844171	BZ844171	CH240_249
C 400	17.6	73.3	833	8	DN027882	JGI CAAR6	DN027882
C 401	17.6	73.3	841	9	BZ286034	CH230-471	BZ286034
C 402	17.6	73.3	870	7	CV636578	CV636578	EST915331
C 403	17.6	73.3	870	10	CW0708354	A1AA-aab7	CW0708354
C 404	17.6	73.3	882	2	B963185	BE963185	601656801
C 405	17.6	73.3	892	10	CL146659	CL146659	CH216-120
C 406	17.6	73.3	897	11	CNS04QKA	AL302707	Tetraodon
C 407	17.6	73.3	900	7	CJ386892	CJ386892	CJ386892
C 408	17.6	73.3	922	7	CX415039	AUF IpPit	CX415039
C 409	17.6	73.3	927	5	BX771458	BX771458	BX771458
C 410	17.6	73.3	974	8	DN806669	DN806669	76943722
C 411	17.6	73.3	1002	10	CL146659	CL146659	ISB1-1471
C 412	17.6	73.3	1097	9	CC216299	CC216299	CH261-78B
C 413	17.6	73.3	1101	10	CNS01733	AL107529	Drosophill
C 414	17.6	73.3	1196	9	CC313471	TAM32-16N	CC313471
C 415	17.6	73.3	1205	5	BQ896728	BQ896728	AGENCOURT
C 416	17.6	73.3	1234	2	B9662434	B9662434	601655727
C 417	17.6	73.3	1275	10	AG395389	AG395389	Mus muscu
C 418	17.6	73.3	1287	10	CL648487	CL648487	CH213-181
C 419	17.6	73.3	1480	1	AJ568073	AJ568073	AJ568073
C 420	17.6	73.3	1500	8	DN691479	DN691479	CGX76-E10
C 421	17.6	73.3	1712	2	B965893	B965893	601659058
C 422	17.4	72.5	176	1	AU259013	AU259013	AU259013
C 423	17.4	72.5	245	2	BG147614	BG147614	maB54B08..
C 424	17.4	72.5	281	10	CG855312	CG855312	ZMMBBC022
C 425	17.4	72.5	292	7	CN699709	CN699709	E0425C01
C 426	17.4	72.5	338	3	BN004462	BN004462	TGESTzya8
C 427	17.4	72.5	349	11	CR198506	Forward s	CR198506
C 428	17.4	72.5	353	9	A2512331	A2512331	LM0357J17
C 429	17.4	72.5	385	2	B8872123	B8872123	B8872123
C 430	17.4	72.5	395	6	CD548181	CD548181	B0288B10-
C 431	17.4	72.5	401	3	BM176693	BM176693	TGESTzya9
C 432	17.4	72.5	403	9	AC309320	CITB1-E1-	AC309320
C 433	17.4	72.5	441	3	BM176568	BM176568	TGESTzya9
C 434	17.4	72.5	444	7	CO147905	CO147905	ESTR822958
C 435	17.4	72.5	464	11	CR869662	CR869662	Sub scrofor
C 436	17.4	72.5	469	9	AZ482899	AZ482899	LM0308P09
C 437	17.4	72.5	470	3	BM039899	BM039899	TGESTzya7
C 438	17.4	72.5	494	9	AZ763313	AZ763313	LM05

461	17.4	72.5	866	5	BX443781
C 462	17.4	72.5	872	10	CZ713396
C 463	17.4	72.5	956	10	BX973996
C 464	17.4	72.5	964	2	BF785319
C 465	17.4	72.5	986	11	CNS06NX1
C 466	17.4	72.5	1052	9	BZ145377
C 467	17.4	72.5	1287	10	AG429886
C 468	17.4	72.5	1338	10	AJ859438
C 469	17.4	72.5	1433	10	CG749550
C 470	17.4	72.5	3708	4	AK049008
C 471	17.2	71.7	59	10	BX651325
C 472	17.2	71.7	153	7	CK278281
C 473	17.2	71.7	158	7	CK680393
C 474	17.2	71.7	193	10	CG788074
C 475	17.2	71.7	197	9	AQ480608
C 476	17.2	71.7	205	1	AV287083
C 477	17.2	71.7	253	1	AV289746
C 478	17.2	71.7	256	2	BG628862
C 479	17.2	71.7	282	10	AG205001
C 480	17.2	71.7	285	7	CO300161
C 481	17.2	71.7	297	9	BZ607735
C 482	17.2	71.7	300	2	BB281190
C 483	17.2	71.7	309	1	AI521789
C 484	17.2	71.7	309	7	CO472686
C 485	17.2	71.7	329	7	CN931979
C 486	17.2	71.7	329	8	CX349565
C 487	17.2	71.7	330	9	AZ879450
C 488	17.2	71.7	332	9	CO372868
C 489	17.2	71.7	336	3	BP507844
C 490	17.2	71.7	352	7	CO271685
C 491	17.2	71.7	354	7	CN491214
C 492	17.2	71.7	355	7	CN901605
C 493	17.2	71.7	357	8	DN848188
C 494	17.2	71.7	363	8	DN170574
C 495	17.2	71.7	368	6	CA498606
C 496	17.2	71.7	374	8	H65358
C 497	17.2	71.7	377	8	R06741
C 498	17.2	71.7	378	1	AJ668557
C 499	17.2	71.7	383	1	AJ660851
C 500	17.2	71.7	386	3	BM116468

ALIGNMENTS

RESULT 1
CA7211426
LOCUS
DEFINITION
CA7211426 485 bp mRNA linear EST 26-NOV-2002
wdk9n.pk001.l3 wdk9n Triticum aestivum cDNA clone wdk9n.pk001.l3-5'
end, mRNA sequence.
ACCESSION
CA721426
VERSION
KEYWORDS
SOURCE
CA721426.1 GI:25443206
EST.
Triticum aestivum (bread wheat)
ORGANISM
Triticum aestivum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Poidea; Triticeae; Triticeae.
REFERENCE
1 (bases 1 to 485)
Tingey,S.V., Powell,W., Wolters,P., Dolan,M., Hainey,C., Yuan,Z.,
Miao,G., Caraher,N. and Hanafey,M.K.
DuPont Wheat cDNA Sequence
Unpublished (2002)
COMMENT
Contact: Scott V. Tingey
Crop Genetics
E. I. DuPont de Nemours and Company
1 Innovation Way, P.O. Box 6104, Newark, DE 19714-6104, USA
Tel: 302-631-2602
Fax: 302-631-2607
Email: Scott.V.Tingey@USA.dupont.com
Seq primer: M13.
Location/Qualifiers
1 .485
FEATURES
source

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 203.077 Seconds
(without alignments)
787.645 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

Sequence: 1 gcacatccctacaaagaagat 24

Scoring table: IDENTITY_NUC
Gap 10.0, Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

N_Geneseq_21:*

- 1: Geneseq1980s:*
- 2: Geneseq1990s:*
- 3: Geneseq2000s:*
- 4: Geneseq2001as:*
- 5: Geneseq2001bs:*
- 6: Geneseq2002as:*
- 7: Geneseq2002bs:*
- 8: Geneseq2003as:*
- 9: Geneseq2003bs:*
- 10: Geneseq2003cs:*
- 11: Geneseq2003ds:*
- 12: Geneseq2004as:*
- 13: Geneseq2004bs:*
- 14: Geneseq2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	18.8	78.3	1995	13	ADO84134
c 2	18.2	75.8	43	10	ADF72666
c 3	18.2	75.8	666	11	ACN90351
c 4	18.2	75.8	677	4	AAL20420
c 5	18.2	75.8	711	4	AAL11522
c 6	18.2	75.8	840	11	ACN81723
c 7	18.2	75.8	2817	10	AD853631
c 8	17.8	74.2	353	9	ACD44885
c 9	17.8	74.2	716	6	AB876965
c 10	17.8	74.2	1863	9	ADA02806
c 11	17.8	74.2	1863	10	ADB72544
c 12	17.8	74.2	1863	10	ADC85286
c 13	17.8	74.2	1863	12	ADM74401
c 14	17.8	74.2	1863	14	ADV43391
c 15	17.8	74.2	2844	6	ABI19769
c 16	17.8	74.2	4366	9	ADA02805
c 17	17.8	74.2	4366	10	ADB72543
c 18	17.8	74.2	4366	10	ADC85285
c 19	17.8	74.2	4366	10	ADE40424

20	17.8	74.2	4366	12	ADM74400	Adm74400 Human car
21	17.8	74.2	4366	14	ADY16567	Ady16567 DNA encod
22	17.8	74.2	4839	4	ABL14642	Abli14642 Drosophil
23	17.8	74.2	4883	14	ABE28778	Ab287778 Plaemid p
24	17.8	74.2	6381	6	ABV94054	Abv94054 Breast ca
25	17.8	74.2	6381	14	ADY20562	Ady20562 DNA encod
26	17.8	74.2	6383	6	ABL63135	Abli63135 Breast ca
27	17.8	74.2	6383	10	ADD89974	Add89974 Human can
28	17.8	74.2	6383	12	ADP12829	Adp12829 Reference
29	17.8	74.2	6401	5	AAS80103	Aas80103 DNA encod
c 30	17.8	74.2	42347	12	ADP84152	Adp84152 Human CAL
31	17.8	74.2	92562	10	ADC85284	Adc85284 Human itk
32	17.8	74.2	92563	9	ADA02804	Ada02804 Human itk
33	17.8	74.2	92563	10	ADB72542	Adb72542 Human itk
34	17.8	74.2	92563	12	ADM74399	Adm74399 Human car
c 35	17.8	74.2	337344	13	ABD32715	Abd32715 Human can
36	17.8	73.3	597	12	ACH71611	Ach71611 Human gen
c 37	17.4	72.5	299	8	ABZ55784	Abz55784 Aspergill
38	17.4	72.5	192992	13	ABD32866	Abd32866 Mouse can
39	17.2	71.7	91	4	AAI25152	Aai25152 Probe #15
40	17.2	71.7	91	4	ABA70902	Aba70902 Human foe
41	17.2	71.7	91	4	AAI51087	Aai51087 Probe #19
42	17.2	71.7	91	4	ABA37345	Aba37345 Probe #15
43	17.2	71.7	91	4	AAK45132	Aak45132 Human bon
44	17.2	71.7	91	4	AAK19171	Aak19171 Human bra
45	17.2	71.7	91	4	ABS44803	Abs44803 Human liv
46	17.2	71.7	91	6	ABS19382	Abs19382 Human gen
47	17.2	71.7	242	3	AAK14239	Aac14239 Human sec
c 48	17.2	71.7	448	4	AAI11893	Aai11893 Probe #18
c 49	17.2	71.7	448	4	ABA53593	Aba53593 Human foe
c 50	17.2	71.7	448	4	AAI33220	Aai33220 Probe #19
c 51	17.2	71.7	448	4	ABA43174	Aba43174 Human bre
c 52	17.2	71.7	448	4	ABA23348	Aba23348 Probe #18
c 53	17.2	71.7	448	4	AAK27318	Aak27318 Human bon
c 54	17.2	71.7	448	4	AAK01860	Aak01860 Human bra
c 55	17.2	71.7	448	4	ABS26893	Abs26893 Human liv
c 56	17.2	71.7	448	5	AAI01830	Aai01830 Probe #18
c 57	17.2	71.7	448	6	ABS01839	Abs01839 Human gen
c 58	17.2	71.7	483	4	AAI15934	Aai15934 Probe #58
59	17.2	71.7	483	4	ABA58305	Aba58305 Human foe
60	17.2	71.7	483	4	AAI37927	Aai37927 Probe #66
61	17.2	71.7	483	4	ABA27439	Aba27439 Probe #59
62	17.2	71.7	483	4	AAK32074	Aak32074 Human bon
63	17.2	71.7	483	4	AAK06402	Aak06402 Human bra
64	17.2	71.7	483	4	ABS31769	Abs31769 Human liv
65	17.2	71.7	483	6	ABS06841	Abs06841 Human gen
c 66	17.2	71.7	556	6	ABN65368	Abn65368 Human can
c 67	17.2	71.7	581	4	AAK66963	Aak66963 Human imm
c 68	17.2	71.7	615	11	ACN87709	Acn87709 Breast ca
c 69	17.2	71.7	648	8	ACA24524	Aca24524 Prokaryot
70	17.2	71.7	1048	4	AAK79700	Aak79700 Human imm
71	17.2	71.7	1049	4	AAK80426	Aak80426 Human imm
72	17.2	71.7	1051	4	AAK80025	Aak80025 Human imm
73	17.2	71.7	1051	4	AAK85923	Aak85923 Human imm
74	17.2	71.7	1051	4	AAK79693	Aak79693 Human imm
75	17.2	71.7	1179	11	ACN90172	Acn90172 Breast ca
c 76	17.2	71.7	1192	8	ABX34476	Abx34476 Human mdd
c 77	17.2	71.7	1197	4	AAK77110	Aak77110 Human imm
c 78	17.2	71.7	1200	4	AAK77109	Aak77109 Human imm
79	17.2	71.7	1296	4	ABLI1827	Abli1827 Drosophil
80	17.2	71.7	1453	4	AAK94882	Aak94882 Human ful
81	17.2	71.7	1453	12	ADL32047	Adl32047 Full leng
82	17.2	71.7	2104	14	AD212543	Ad212543 Human can
83	17.2	71.7	2232	1	AAW70598	Aan70598 cDNA enco
84	17.2	71.7	2306	13	ADQ85191	Adq85191 Human tum
85	17.2	71.7	2308	9	ADA02607	Ada02607 Human IL2
86	17.2	71.7	2308	10	ADB72345	Adb72345 Human IL2
87	17.2	71.7	2308	10	ADD25610	Add25610 Binding d
88	17.2	71.7	2308	10	AD85885	Ad85885 Human DNA
89	17.2	71.7	2308	12	ADL82822	Adl82822 Human PRO
90	17.2	71.7	2308	12	ADP10426	Adp10426 Reference
91	17.2	71.7	2308	12	ADQ19555	Adq19555 Human PRO
92	17.2	71.7	2308	13	ADP54612	Adp54612 Human PRO

93	17.2	71.7	2320	14	ADZ12545	Adz12545 Human can	166	16.6	69.2	206	12	ADJ12716	Adj12716 DNA fragm
94	17.2	71.7	2335	3	AAZ35229	Aaz35229 Human ade	167	16.6	69.2	210	2	AAT21164	Aat21164 Human gen
95	17.2	71.7	2335	3	AAZ51781	Aaz51781 CD25 T ce	168	16.6	69.2	300	3	AAA01376	Aaa01376 Human col
96	17.2	71.7	2335	3	AAF21351	Aaf21351 Human low	169	16.6	69.2	308	5	ABV50516	Abv50516 Human pro
97	17.2	71.7	2335	10	ADC64474	Adc64474 Human inh	c 170	16.6	69.2	313	4	RAA24369	Raa24369 Human ova
98	17.2	71.7	2335	10	ABZ97045	Abz97045 Human nuc	c 171	16.6	69.2	313	5	AAH82960	Aah82960 Human ova
99	17.2	71.7	2335	11	ADI311986	Adi311986 Human cdn	c 172	16.6	69.2	319	6	ABK70505	Abk70505 Human 85p
100	17.2	71.7	2335	11	ABD20894	Abd20894 Human pul	c 173	16.6	69.2	350	5	AAH94219	Aah94219 Human foe
101	17.2	71.7	2335	13	ADG84053	Adg84053 Human lym	c 174	16.6	69.2	354	2	AAT67374	Aat67374 H. pylori
102	17.2	71.7	2335	14	ADY86613	Ady86613 Human int	c 175	16.6	69.2	378	6	ABN75820	Abn75820 Human ORF
103	17.2	71.7	2352	11	ADM02738	Adm02738 Human cdn	c 176	16.6	69.2	383	5	AAF66160	Aaf66160 Novel hum
c 104	17.2	71.7	4336	4	ABL11826	Ab111826 Drosophila	c 177	16.6	69.2	397	8	ABX37467	Abx37467 Bovine ES
c 105	17.2	71.7	5652	2	AAK99575	Aak99575 Nucleic a	c 178	16.6	69.2	398	8	ABX37008	Abx37008 Bovine ES
106	17.2	71.7	7482	4	AAK66561	Aak66561 Human imm	c 179	16.6	69.2	417	4	AAI82978	Aai82978 Human pol
107	17.2	71.7	7482	10	ABZ67464	Abz67464 Human sec	180	16.6	69.2	422	12	ADJ75817	Adj75817 Marker ge
108	17.2	71.7	8321	8	ADA98848	Ada98848 Human sec	c 181	16.6	69.2	425	9	ACH17731	Ach17731 Human adu
109	17.2	71.7	8321	8	ADA44471	Ada44471 Human sec	c 182	16.6	69.2	429	8	ABX35722	Abx35722 Bovine ES
110	17.2	71.7	8321	10	ADC20851	Adc20851 Human sec	c 183	16.6	69.2	432	13	ADU14151	Adu14151 Soling tum
111	17.2	71.7	8321	10	ADF10961	Adf10961 Human sec	c 184	16.6	69.2	441	3	AAA43512	Aaa43512 Mouse sec
112	17.2	71.7	9456	4	AAI198876	Aai198876 Human exc	c 185	16.6	69.2	480	6	ABL78473	Ab178473 Human ova
113	17.2	71.7	9456	5	AAI163326	Aai163326 Human kid	c 186	16.6	69.2	484	14	ACL56929	Acl56929 Human col
114	17.2	71.7	13813	4	AAK89790	Aak89790 Human dig	c 187	16.6	69.2	512	14	ACL62217	Acl62217 Human col
115	17.2	71.7	16146	4	AAK84529	Aak84529 Human imm	188	16.6	69.2	584	4	AAH05707	Aah05707 Human cdn
116	17.2	71.7	16146	8	ADA98845	Ada98845 Human sec	c 189	16.6	69.2	584	10	ADD35114	Add35114 Mouse mit
117	17.2	71.7	16146	8	ADA44551	Ada44551 Human sec	c 190	16.6	69.2	586	5	ABV59305	Abv59305 Human pro
118	17.2	71.7	16146	10	ADC20980	Adc20980 Human sec	c 191	16.6	69.2	615	10	ADC93303	Adc93303 E. faeciu
119	17.2	71.7	16146	10	ADF11004	Adf11004 Human sec	c 192	16.6	69.2	623	3	AAF22360	Aaf22360 Human sec
120	17.2	71.7	16146	10	ABT17011	Abt17011 Human sec	c 193	16.6	69.2	623	8	ADA98111	Ada98111 Human sec
121	17.2	71.7	16146	10	ABZ68089	Abz68089 Human sec	c 194	16.6	69.2	623	8	ADA43979	Ada43979 Human sec
122	17.2	71.7	17644	3	AAA35236	Aaa35236 Human ade	c 195	16.6	69.2	623	10	ADC20267	Adc20267 Human sec
123	17.2	71.7	17844	3	AAF21358	Aaf21358 Human low	c 196	16.6	69.2	623	10	ADF10654	Adf10654 Human sec
124	17.2	71.7	17844	10	ABZ97052	Abz97052 Human nuc	c 197	16.6	69.2	666	4	RAA24114	Raa24114 Human ova
125	17.2	71.7	70251	11	ABD20901	Abd20901 Human pul	198	16.6	69.2	698	5	AAH82689	Aah82689 Human ova
126	17.2	71.7	35886	12	ADO34038	Ado34038 Human CLA	c 199	16.6	69.2	770	4	ABZ16909	Abz16909 Arabidops
c 127	17.2	71.7	40050	9	ADA02585	Ada02585 Mouse ics	200	16.6	69.2	774	4	RAI195016	Rai195016 Human neu
c 128	17.2	71.7	70251	10	ADB72323	Adb72323 Mouse ics	201	16.6	69.2	828	2	AAT67928	Aat67928 H. pylori
c 129	17.2	71.7	40050	10	ADE95833	Ade95833 Mouse ics	c 202	16.6	69.2	835	8	ADA98911	Ada98911 Human sec
130	17.2	71.7	43411	6	ABQ88169	Abq88169 Human ost	c 203	16.6	69.2	835	8	ADA44517	Ada44517 Human sec
131	17.2	71.7	56826	13	ABD33496	Abd33496 Human can	c 204	16.6	69.2	835	10	ADC20947	Adc20947 Human sec
132	17.2	71.7	65666	3	AAA53450	Aaa53450 Human thi	c 205	16.6	69.2	835	10	ADF10979	Adf10979 Human sec
133	17.2	71.7	70251	9	ADA02606	Ada02606 Human IL2	c 206	16.6	69.2	875	5	ADL63346	Adl63346 Human ova
134	17.2	71.7	70251	10	ADB72344	Adb72344 Human IL2	207	16.6	69.2	915	4	RAA85012	Raa85012 Human imm
135	17.2	71.7	70251	10	ADE95854	Ade95854 Human IL2	c 208	16.6	69.2	952	4	AAH34907	Aah34907 Human col
c 136	17.2	71.7	70251	14	ADZ12540	Adz12540 Human can	c 209	16.6	69.2	1076	4	AAH74051	Aah74051 Human imm
c 137	17.2	71.7	70665	6	ABT10716	Abt10716 Human bre	c 210	16.6	69.2	1077	4	AAK74051	Aak74051 Human imm
c 138	17.2	71.7	70665	11	ADN95672	Adn95672 Human BEC	c 211	16.6	69.2	1143	6	ABK89128	Abk89128 Human tum
c 139	17.2	71.7	80251	4	ABL16442	Ab116442 Drosophil	c 212	16.6	69.2	1143	6	ABK89128	Abk89128 cDNA enco
c 140	17.2	71.7	80251	4	ABL16442	Ab116442 Drosophil	c 213	16.6	69.2	1157	13	ADR65546	Adr65546 Cotton cd
c 141	17.2	71.7	80275	12	ADQ97310	Adq97310 Mouse can	c 214	16.6	69.2	1158	10	ADK11359	Adk11359 Human cdk
142	17.2	71.7	98948	13	ABD33256	Abd33256 Human can	215	16.6	69.2	1188	4	AAI61165	Aai61165 Human pol
143	17.2	71.7	110000	11	ACN43998 ⁵	Continuation (6 of	c 216	16.6	69.2	1203	10	ADB47377	Adb47377 Human CDN
144	17.2	71.7	110000	11	ACN45090 ¹	Continuation (2 of	c 217	16.6	69.2	1203	12	ADI61732	Adi61732 Human CDN
c 145	17.2	71.7	129042	11	ACN44674	Acn44674 Human gen	c 218	16.6	69.2	1203	14	AEA43897	Aea43897 Human CDN
146	17.2	71.7	185548	13	ADV34986	Adv34986 Murine cd	c 219	16.6	69.2	1231	12	ADQ86504	Adq86504 Human tum
c 147	17.2	71.7	219715	13	ABD32692	Abd32692 Mouse can	c 220	16.6	69.2	1242	6	ABT11396	Abt11396 Yeast sel
c 148	17.2	71.7	295096	11	ACN44068	Acn44068 Mouse gen	221	16.6	69.2	1257	8	ACA23347	Aca23347 Prokaryot
c 149	16.8	70.0	335	6	ABK64429	Abk64429 Human den	c 222	16.6	69.2	1262	6	ABK70506	Abk70506 Human CDN
c 150	16.8	70.0	343	6	ABN79423	Abn79423 Human ORF	c 223	16.6	69.2	1354	12	ADI26060	Adi26060 Human CDN
c 151	16.8	70.0	367	6	ABN79423	Abn79423 Human ORF	c 224	16.6	69.2	1354	12	ADI26062	Adi26062 Human CDN
c 152	16.8	70.0	446	13	ACF86929	Acf86929 Human SIR	c 225	16.6	69.2	1450	14	ADZ62767	Adz62767 Murine MG
153	16.8	70.0	498	4	AAZ24816	Aaz24816 Human ova	c 226	16.6	69.2	1467	4	AAI59379	Aai59379 Human pol
154	16.8	70.0	498	5	AAH83451	Aah83451 Human ova	c 227	16.6	69.2	1542	12	ADP04092	Adp04092 Human col
c 155	16.8	70.0	556	12	ACH68234	Ach68234 Human gen	c 228	16.6	69.2	1604	5	AAH68683	Aah68683 DNA encod
c 156	16.8	70.0	566	10	ADB51758	Abd51758 Primay r	c 229	16.6	69.2	1604	5	AAH65387	Aah65387 DNA encod
c 157	16.8	70.0	1752	5	ABA14510	Abal4510 Human ner	c 230	16.6	69.2	1608	10	ADH28931	Adh28931 Human chr
c 158	16.8	70.0	1752	5	ABA14511	Abal4511 Human ner	c 231	16.6	69.2	1608	13	ADR25206	Adr25206 Breast ca
c 159	16.8	70.0	2172	4	ABL10953	Ab110953 Drosophil	c 232	16.6	69.2	1615	13	ABD33099	Abd33099 Murine ca
c 160	16.8	70.0	3001	3	AAH51746	Aah51746 Chromosom	c 233	16.6	69.2	1620	5	RAA93473	Raa93473 DNA encod
161	16.8	70.0	4578	4	ABL10952	Ab110952 Drosophil	c 234	16.6	69.2	1627	13	ADP54309	Adp54309 Human PRO
162	16.8	70.0	5226	6	ADI39470	Adi39470 Arabidops	c 235	16.6	69.2	1627	14	AAI14696	Aai14696 Human sec
163	16.8	70.0	5874	6	ADI39470	Adi39470 A thalian	c 236	16.6	69.2	1631	4	AAI14696	Aai14696 Human sec
164	16.8	70.0	215221	11	ACN44754	Acn44754 Human gen	237	16.6	69.2	1666	12	ADP04091	Adp04091 Human col
c 165	16.6	69.2	185	14	ABE02528	Ab02528 MicroRNA	238	16.6	69.2	1928	12	ADJ75963	Adj75963 Marker ge

c 239	16.6	69.2	1958	12	ADP04093	Adp04093 Human col	312	16.6	69.2	312957	13	ADV15290	Human oet
c 240	16.6	69.2	2058	2	AAT72943	Aat72943 Phaffia c	313	16.6	69.2	312957	14	ABE32365	Human oet
c 241	16.6	69.2	2118	4	AAI86022	AAI86022 Human pol	314	16.6	69.2	312972	13	ADV15293	Human oet
c 242	16.6	69.2	2334	4	AAH17644	AAH17644 Human cDN	315	16.6	69.2	312972	14	ABE32394	Human gen
c 243	16.6	69.2	2340	13	ACN41092	Acn41092 Tumour-as	316	16.6	69.2	313001	14	ADZ70075	Human ins
c 244	16.6	69.2	2613	4	AAH18543	Aah18543 Human cDN	317	16.6	69.2	321019	13	ADZ36450	Human aut
c 245	16.6	69.2	2676	6	ABG70384	Abg70384 Human bon	318	16.6	69.2	329019	13	ABD32707	Human can
c 246	16.6	69.2	2909	13	ADR24415	Adr24415 Breast ca	c 319	16.6	69.2	337022	12	ADQ59416	Human can
c 247	16.6	69.2	3856	4	AAH17850	Aah17850 Human cDN	c 320	16.6	69.2	338780	14	ADZ13691	Human can
c 248	16.6	69.2	3856	10	ADK11416	Adk11416 Human BAB	321	16.4	68.3	707	4	AAK71837	Human imm
c 249	16.6	69.2	3856	11	ADN95286	Adn95286 Human BEC	322	16.4	68.3	708	4	AAK71836	Human imm
c 250	16.6	69.2	3856	12	ADP91370	Adp91370 Human ens	323	16.4	68.3	717	8	ACA28388	Prokaryot
c 251	16.6	69.2	4056	8	ACC72054	Acc72054 BCU0988B	c 324	16.4	68.3	847	4	AAH03971	Human cDN
c 252	16.6	69.2	4056	10	ADK65816	Adk65816 Angiogene	325	16.4	68.3	847	4	AAH03971	Human cDN
c 253	16.6	69.2	4248	8	ACC72053	Acc72053 BCU0988A	326	16.4	68.3	1201	14	AE666013	Rice geno
c 254	16.6	69.2	4248	10	ADK65814	Adk65814 Angiogene	327	16.4	68.3	1201	14	AE666013	Rice geno
c 255	16.6	69.2	4248	10	ADK65814	Adk65814 Angiogene	328	16.4	68.3	1764	4	AE664975	Rice geno
c 256	16.6	69.2	4646	4	AAK53599	Aak53599 Human gen	329	16.4	68.3	1908	6	ABK73267	Bacillus
c 257	16.6	69.2	5061	4	AAK53599	Aak53599 Human gen	330	16.4	68.3	2647	5	AAH90017	Human bon
c 258	16.6	69.2	5061	4	AAK53599	Aak53599 Human gen	331	16.4	68.3	3044	3	AAZ51276	Human pol
c 259	16.6	69.2	5061	4	AAK53599	Aak53599 Human gen	332	16.4	68.3	3044	3	AAZ51276	Human pol
c 260	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	333	16.4	68.3	3044	3	AAZ51276	Human pol
c 261	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	334	16.4	68.3	3044	3	AAZ51276	Human pol
c 262	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	335	16.4	68.3	3044	3	AAZ51276	Human pol
c 263	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	336	16.4	68.3	3044	3	AAZ51276	Human pol
c 264	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	337	16.4	68.3	3044	3	AAZ51276	Human pol
c 265	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	338	16.4	68.3	3044	3	AAZ51276	Human pol
c 266	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	339	16.4	68.3	3044	3	AAZ51276	Human pol
c 267	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	340	16.4	68.3	3044	3	AAZ51276	Human pol
c 268	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	341	16.4	68.3	3044	3	AAZ51276	Human pol
c 269	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	342	16.4	68.3	3044	3	AAZ51276	Human pol
c 270	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	343	16.4	68.3	3044	3	AAZ51276	Human pol
c 271	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	344	16.4	68.3	3044	3	AAZ51276	Human pol
c 272	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	345	16.4	68.3	3044	3	AAZ51276	Human pol
c 273	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	346	16.4	68.3	3044	3	AAZ51276	Human pol
c 274	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	347	16.4	68.3	3044	3	AAZ51276	Human pol
c 275	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	348	16.4	68.3	3044	3	AAZ51276	Human pol
c 276	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	349	16.4	68.3	3044	3	AAZ51276	Human pol
c 277	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	350	16.4	68.3	3044	3	AAZ51276	Human pol
c 278	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	351	16.4	68.3	3044	3	AAZ51276	Human pol
c 279	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	352	16.4	68.3	3044	3	AAZ51276	Human pol
c 280	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	353	16.4	68.3	3044	3	AAZ51276	Human pol
c 281	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	354	16.4	68.3	3044	3	AAZ51276	Human pol
c 282	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	355	16.4	68.3	3044	3	AAZ51276	Human pol
c 283	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	356	16.4	68.3	3044	3	AAZ51276	Human pol
c 284	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	357	16.4	68.3	3044	3	AAZ51276	Human pol
c 285	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	358	16.4	68.3	3044	3	AAZ51276	Human pol
c 286	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	359	16.4	68.3	3044	3	AAZ51276	Human pol
c 287	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	360	16.4	68.3	3044	3	AAZ51276	Human pol
c 288	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	361	16.4	68.3	3044	3	AAZ51276	Human pol
c 289	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	362	16.4	68.3	3044	3	AAZ51276	Human pol
c 290	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	363	16.4	68.3	3044	3	AAZ51276	Human pol
c 291	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	364	16.4	68.3	3044	3	AAZ51276	Human pol
c 292	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	365	16.4	68.3	3044	3	AAZ51276	Human pol
c 293	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	366	16.4	68.3	3044	3	AAZ51276	Human pol
c 294	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	367	16.4	68.3	3044	3	AAZ51276	Human pol
c 295	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	368	16.4	68.3	3044	3	AAZ51276	Human pol
c 296	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	369	16.4	68.3	3044	3	AAZ51276	Human pol
c 297	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	370	16.4	68.3	3044	3	AAZ51276	Human pol
c 298	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	371	16.4	68.3	3044	3	AAZ51276	Human pol
c 299	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	372	16.4	68.3	3044	3	AAZ51276	Human pol
c 300	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	373	16.4	68.3	3044	3	AAZ51276	Human pol
c 301	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	374	16.4	68.3	3044	3	AAZ51276	Human pol
c 302	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	375	16.4	68.3	3044	3	AAZ51276	Human pol
c 303	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	376	16.4	68.3	3044	3	AAZ51276	Human pol
c 304	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	377	16.4	68.3	3044	3	AAZ51276	Human pol
c 305	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	378	16.4	68.3	3044	3	AAZ51276	Human pol
c 306	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	379	16.4	68.3	3044	3	AAZ51276	Human pol
c 307	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	380	16.4	68.3	3044	3	AAZ51276	Human pol
c 308	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	381	16.4	68.3	3044	3	AAZ51276	Human pol
c 309	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	382	16.4	68.3	3044	3	AAZ51276	Human pol
c 310	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	383	16.4	68.3	3044	3	AAZ51276	Human pol
c 311	16.6	69.2	5061	10	ADK65814	Adk65814 Angiogene	384	16.4	68.3	3044	3	AAZ51276	Human pol

Aac49483 Arabidops

C 385	16.2	67.5	1848	13	ADT15904	Adt15904 Plant cdn
C 386	16.2	67.5	1872	6	ABE90147	Abt190147 Human pol
C 387	16.2	67.5	1929	10	ABZ81309	Abz81309 Human dru
C 388	16.2	67.5	1999	10	ADC08466	Adc08466 Rice DNA
C 389	16.2	67.5	2007	8	ADA71791	Ada71791 Rice gene
C 390	16.2	67.5	2020	13	ADT19436	Adt19436 Plant cdn
C 391	16.2	67.5	2081	13	ACN43563	Acn43563 Human dia
C 392	16.2	67.5	2091	13	ACN42188	Acn42188 Human dia
C 393	16.2	67.5	2334	10	ADES3963	Ades3963 Human pro
C 394	16.2	67.5	2493	14	ADW18123	Adw18123 Pinus rad
C 395	16.2	67.5	2551	13	ADX28139	Adx28139 Plant ful
C 396	16.2	67.5	2572	14	AEB26850	Aeb26850 Pinus rad
C 397	16.2	67.5	2896	13	ADU82627	Adu82627 Human MDD
C 398	16.2	67.5	3244	2	AXA04748	Axa04748 SLC1 gene
C 399	16.2	67.5	4208	12	ADQ23988	Adq23988 Human sof
C 400	16.2	67.5	4510	6	ADQ36752	Adq36752 Mouse PER
C 401	16.2	67.5	5816	6	ABK40011	Abk40011 Human che
C 402	16.2	67.5	7316	6	ABN80241	Abn80241 Human che
C 403	16.2	67.5	9192	4	AS333461	As333461 DNA encod
C 404	16.2	67.5	11222	10	ADB54001	Adb54001 MB genom
C 405	16.2	67.5	24161	4	AAK80711	Aak80711 Human imm
C 406	16.2	67.5	25378	4	AAK80709	Aak80709 Human imm
C 407	16.2	67.5	25715	4	AS333462	As333462 DNA encod
C 408	16.2	67.5	29220	4	AS227653	As227653 DNA encod
C 409	16.2	67.5	29220	4	AS227652	As227652 DNA encod
C 410	16.2	67.5	29220	10	ADB94455	Adb94455 Novel hum
C 411	16.2	67.5	29220	10	ADB94456	Adb94456 Novel hum
C 412	16.2	67.5	32001	13	ADR20458	Adr20458 Human SPR
C 413	16.2	67.5	32572	13	ADS36470	Ads36470 Human aut
C 414	16.2	67.5	41907	9	ADA37416	Ada37416 Human rDN
C 415	16.2	67.5	42998	8	ADA14747	Ada14747 Human rib
C 416	16.2	67.5	42999	8	ABE56032	Abes56032 Invertebr
C 417	16.2	67.5	42999	8	ABX11086	Abx11086 Human rib
C 418	16.2	67.5	42999	10	ADR61411	Adr61411 Human rib
C 419	16.2	67.5	42999	13	ADR43949	Adr43949 Human rib
C 420	16.2	67.5	42999	14	ABE25475	Abes25475 Human rib
C 421	16.2	67.5	51952	2	AAV26084	Aav26084 Tomato pe
C 422	16.2	67.5	55121	14	ADZ13027	Adz13027 Human can
C 423	16.2	67.5	90943	11	ACN44608	Acn44608 Mouse gen
C 424	16.2	67.5	107829	11	ACN44088	Acn44088 Mouse gen
C 425	16.2	67.5	110000	6	ABO69245-08	Abos69245-08
C 426	16.2	67.5	110000	6	ABD32806-0	Abd32806-0
C 427	16.2	67.5	110000	6	ABQ69245-09	Abq69245-09
C 428	16.2	67.5	110000	6	ABQ67197-08	Abq67197-08
C 429	16.2	67.5	110000	12	ADO34435-2	Ado34435-2
C 430	16.2	67.5	110000	12	ADQ97050-2	Adq97050-2
C 431	16.2	67.5	110000	13	ABD32806-0	Abd32806-0
C 432	16.2	67.5	110000	14	ADZ13575-0	Adz13575-0
C 433	16.2	67.5	110000	14	AEA61169-2	Aea61169-2
C 434	16.2	67.5	113000	9	ABT44365	Abt44365 Partial g
C 435	16.2	67.5	121600	6	ABT10748	Abt10748 Human bre
C 436	16.2	67.5	121600	12	ADQ18307	Adq18307 Human sof
C 437	16.2	67.5	123526	10	ADJ79962	Adj79962 Human gli
C 438	16.2	67.5	138363	13	ABD32624	Abd32624 Human can
C 439	16.2	67.5	145025	11	ACN44548	Acn44548 Mouse gen
C 440	16.2	67.5	158091	12	ADL08119	Adl08119 Human gen
C 441	16.2	67.5	192639	10	ADL13676	Adl13676 Osteoarth
C 442	16.2	67.5	203654	10	ABX16034	Abx16034 Human gen
C 443	16.2	67.5	217409	11	ACN45150	Acn45150 Human gen
C 444	16.2	67.5	224112	13	ABD32600	Abd32600 Mouse can
C 445	16.2	67.5	260027	11	ACN44046	Acn44046 Human gen
C 446	16.2	67.5	289190	13	ABD33143	Abd33143 Murine ca
C 447	16.2	67.5	325791	4	AA343104	Aa343104 Human Oes
C 448	16.2	67.5	344548	11	ACN44070	Acn44070 Human gen
C 449	16.2	67.5	344548	11	AA349805	Aa349805 Staphyloc
C 450	16.2	66.7	179	4	AA349823	Aa349823 Staphyloc
C 451	16.2	66.7	179	4	AA350550	Aa350550 Staphyloc
C 452	16.2	66.7	179	8	ACAI17830	AcAI17830 Prokaryot
C 453	16.2	66.7	179	8	ACAI17072	AcAI17072 Prokaryot
C 454	16.2	66.7	179	8	ACAI17075	AcAI17075 Prokaryot
C 455	16.2	66.7	207	4	AA355202	Aa355202 Staphyloc
C 456	16.2	66.7	207	4	AA349135	Aa349135 Staphyloc
C 457	16.2	66.7	207	8	ACAI16346	AcAI16346 Prokaryot
C 458	16.2	66.7	217	4	AA349693	Aa349693 Staphyloc
C 459	16.2	66.7	217	8	ACAI16896	AcAI16896 Prokaryot
C 460	16.2	66.7	311	4	AA307040	Aa307040 DNA encod
C 461	16.2	66.7	325	4	AA328656	Aa328656 Human sec
C 462	16.2	66.7	325	4	AAI188501	AaI188501 Human pol
C 463	16.2	66.7	381	4	AA349371	Aa349371 Staphyloc
C 464	16.2	66.7	381	8	ACAI16587	AcAI16587 Prokaryot
C 465	16.2	66.7	392	3	ACAI00456	AcAI00456 Human sec
C 466	16.2	66.7	392	2	AA351521	Aa351521 Human sec
C 467	16.2	66.7	396	13	ADU06200	AdU06200 Novel bro
C 468	16.2	66.7	398	5	ABV07089	Abv07089 Human pro
C 469	16.2	66.7	420	9	ACH21899	Ach21899 Human adu
C 470	16.2	66.7	429	4	AAI188839	AaI188839 Human pol
C 471	16.2	66.7	429	9	ACH29721	Ach29721 Human tes
C 472	16.2	66.7	450	2	AA314220	Aa314220 H. pylori
C 473	16.2	66.7	475	9	ACH40976	ACH40976 Human foe
C 474	16.2	66.7	550	13	ACN471174	AcN471174 Cotton pr
C 475	16.2	66.7	567	13	ACF91261	AcF91261 Murine HE
C 476	16.2	66.7	667	4	AAF62100	Aaf62100 Murine HE
C 477	16.2	66.7	693	12	ADQ18875	Adq18875 Human sof
C 478	16.2	66.7	924	13	ADU98770	Adu98770 Borrelia
C 479	16.2	66.7	970	10	ADI21348	Adi21348 Novel hum
C 480	16.2	66.7	1084	10	ADE40137	Ade40137 Human NOV
C 481	16.2	66.7	1110	10	ADB56200	AdB56200 Toxicity-
C 482	16.2	66.7	1110	10	ADB50720	AdB50720 Primary r
C 483	16.2	66.7	1111	8	ABX05336	Abx05336 Human nov
C 484	16.2	66.7	1166	10	ADC30467	Adc30467 Human nov
C 485	16.2	66.7	1263	9	ADA10701	Ada10701 Human PHB
C 486	16.2	66.7	1344	13	ADX28017	Adx28017 Plant ful
C 487	16.2	66.7	1368	13	ADS60639	Ads60639 Bacterial
C 488	16.2	66.7	1376	2	AA349555	Aa349555 Human sec
C 489	16.2	66.7	1376	8	ACD18881	AcD18881 Novel hum
C 490	16.2	66.7	1376	12	ADG78272	Adg78272 Human sec
C 491	16.2	66.7	1376	12	ADN60563	Adn60563 Human sec
C 492	16.2	66.7	1380	4	ABA49931	AbA49931 Human bre
C 493	16.2	66.7	1380	4	ABA34908	AbA34908 Probe #13
C 494	16.2	66.7	1380	5	AAI108440	AaI108440 Probe #84
C 495	16.2	66.7	1380	6	AA315032	Aa315032 Human gen
C 496	16.2	66.7	1399	4	AA352144	Aa352144 Staphyloc
C 497	16.2	66.7	1404	8	ACF72621	AcF72621 Staphyloc
C 498	16.2	66.7	1501	3	AA393443	Aa393443 Human sec
C 499	16.2	66.7	1518	3	AAA13963	AaA13963 Dirofilar
C 500	16.2	66.7	1518	3	AAA13963	AaA13963 Dirofilar

ALIGNMENTS

RESULT 1

ADO84134/c

ID ADO84134 standard; cDNA; 1995 BP.

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Plant full length insert polynucleotide seqid 2854.

plant protectant; plant growth regulant; gene therapy; plant;

recombinant DNA construct; physical array; plant breeding marker;

cold tolerance; heat tolerance; drought tolerance; herbicide tolerance;

extreme osmotic condition; pathogen tolerance; pest tolerance;

growth rate; cell cycle pathway; disease resistance;

galactomannan production; lignin production; plant growth regulator;

yield; plant growth; protein development; seed oil; protein yield;

protein content; gene; ss.

Unidentified.

US2004034888-A1.

19-FEB-2004.

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 82.9349 Seconds
(without alignments)
514.397 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

Sequence: 1 gcacatccctacaaagagaagat 24

Scoring table: IDENTITY NUC

Gapop 10_0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : Issued Patents_NA.*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
7: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18.4	76.7	144158	3	US-09-949-016-11755
2	18.4	76.7	144158	3	US-09-949-016-12936
3	17.8	74.2	601	3	US-09-949-016-12936
4	17.8	74.2	601	3	US-09-949-016-12936
5	17.8	74.2	601	3	US-09-949-016-12936
6	17.8	74.2	601	3	US-09-949-016-12936
7	17.8	74.2	601	3	US-09-949-016-12936
8	17.8	74.2	601	3	US-09-949-016-12936
9	17.8	74.2	601	3	US-09-949-016-12936
10	17.4	72.5	91831	3	US-09-949-016-12936
11	17.2	71.7	242	3	US-09-513-999C-18314
12	17.2	71.7	601	3	US-09-949-016-175637
13	17.2	71.7	601	3	US-09-949-016-175637
14	17.2	71.7	2114	3	US-09-949-016-1960
15	17.2	71.7	2308	3	US-09-949-016-65
16	17.2	71.7	2335	3	US-09-023-655-3312
17	17.2	71.7	5652	3	US-09-601-198-75
18	17.2	71.7	12880	3	US-09-949-016-16733
19	17.2	71.7	54251	3	US-09-949-016-13702
20	17.2	71.7	54252	3	US-09-949-016-11807
21	17.2	71.7	87629	3	US-09-949-016-15262
22	17.2	71.7	87629	3	US-09-949-016-15262
23	17.2	71.7	87629	3	US-09-949-016-15264
24	17.2	71.7	87629	3	US-09-949-016-15265

25	17.2	71.7	87734	3	US-09-949-016-17521	Sequence 17521, A
26	17.2	71.7	113042	3	US-09-949-016-12343	Sequence 12343, A
27	17.2	71.7	113042	3	US-09-949-016-15246	Sequence 15246, A
28	17.2	71.7	151088	3	US-09-949-016-16240	Sequence 16240, A
29	17.2	71.7	168104	3	US-09-949-016-12026	Sequence 12026, A
30	17.2	71.7	168105	3	US-09-949-016-16554	Sequence 16554, A
31	17.2	71.7	300598	3	US-09-949-016-11868	Sequence 11868, A
32	17.2	71.7	302604	3	US-09-949-016-14589	Sequence 14589, A
33	17.2	71.7	302604	3	US-09-949-016-14589	Sequence 14589, A
34	17.2	71.7	30362	3	US-09-949-016-17119	Sequence 17119, A
35	16.8	70.0	601	3	US-09-949-016-178490	Sequence 178490, A
36	16.8	70.0	601	3	US-09-949-016-189381	Sequence 189381, A
37	16.8	70.0	601	3	US-09-949-002-3170	Sequence 3170, Ap
38	16.8	70.0	601	3	US-09-949-002-3172	Sequence 3172, Ap
39	16.8	70.0	601	3	US-09-949-002-3173	Sequence 3173, Ap
40	16.8	70.0	601	3	US-09-949-002-8069	Sequence 8069, Ap
41	16.8	70.0	601	3	US-09-949-002-8070	Sequence 8070, Ap
42	16.8	70.0	601	3	US-09-949-002-8071	Sequence 8071, Ap
43	16.8	70.0	601	3	US-09-949-002-8072	Sequence 8072, Ap
44	16.8	70.0	3001	3	US-09-539-333D-158	Sequence 158, App
45	16.8	70.0	92074	3	US-09-949-002-659	Sequence 659, App
46	16.8	70.0	267482	3	US-09-949-002-783	Sequence 783, App
47	16.8	70.0	267505	3	US-09-949-016-44304	Sequence 44304, A
48	16.6	69.2	601	3	US-09-949-016-44305	Sequence 44305, A
49	16.6	69.2	601	3	US-09-949-016-137449	Sequence 137449, A
50	16.6	69.2	601	3	US-09-949-016-147854	Sequence 147854, A
51	16.6	69.2	601	3	US-09-949-016-147855	Sequence 147855, A
52	16.6	69.2	601	3	US-08-969-987-6	Sequence 6, Appl
53	16.6	69.2	1143	3	US-09-566-921-100	Sequence 100, App
54	16.6	69.2	1203	3	US-09-949-016-3316	Sequence 3316, Ap
55	16.6	69.2	1609	3	US-09-949-016-101-26	Sequence 16, Appl
56	16.6	69.2	2058	3	US-08-592-541-26	Sequence 26, Appl
57	16.6	69.2	2377	2	US-09-124-698-26	Sequence 26, Appl
58	16.6	69.2	2377	2	US-09-127-480-26	Sequence 26, Appl
59	16.6	69.2	2377	3	US-08-496-841C-26	Sequence 26, Appl
60	16.6	69.2	2377	3	US-09-124-523-26	Sequence 26, Appl
61	16.6	69.2	2377	3	US-09-636-796A-26	Sequence 26, Appl
62	16.6	69.2	2377	3	US-08-431-048F-26	Sequence 26, Appl
63	16.6	69.2	2676	3	US-09-484-970B-41	Sequence 41, Appl
64	16.6	69.2	4056	3	US-10-164-595-55	Sequence 55, Appl
65	16.6	69.2	4248	3	US-10-164-595-53	Sequence 53, Appl
66	16.6	69.2	7200	3	US-09-853-450-48	Sequence 48, Appl
67	16.6	69.2	10321	3	US-09-949-016-13587	Sequence 13587, A
68	16.6	69.2	15148	3	US-09-949-016-15058	Sequence 15058, A
69	16.6	69.2	43690	3	US-09-949-016-13904	Sequence 13904, A
70	16.6	69.2	65300	3	US-09-949-016-16813	Sequence 16813, A
71	16.6	69.2	68702	3	US-09-949-016-16328	Sequence 16328, A
72	16.6	69.2	76472	3	US-09-949-016-15896	Sequence 15896, A
73	16.6	69.2	81701	3	US-09-949-016-14891	Sequence 14891, A
74	16.6	69.2	82726	3	US-09-949-016-12166	Sequence 12166, A
75	16.6	69.2	94739	3	US-09-949-016-12264	Sequence 12264, A
76	16.6	69.2	96739	3	US-09-949-016-15606	Sequence 15606, A
77	16.6	69.2	104428	3	US-09-949-016-12737	Sequence 12737, A
78	16.6	69.2	104429	3	US-09-949-016-13814	Sequence 13814, A
79	16.6	69.2	123513	3	US-09-949-016-15794	Sequence 15794, A
80	16.6	69.2	128779	3	US-09-497-855A-38	Sequence 38, Appl
81	16.6	69.2	135030	3	US-09-949-016-14896	Sequence 14896, A
82	16.6	69.2	137394	3	US-09-949-016-13872	Sequence 13872, A
83	16.6	69.2	137394	3	US-09-949-016-12178	Sequence 12178, A
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c 275	US-09-949-016-135529	3	601	15.6	65.0	c 348	15.6	65.0	2365	3	US-10-104-047-507	Sequence 507, Appl	
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c 299	US-09-949-016-175355	3	601	15.6	65.0	Sequence 175355,	c 372	15.6	65.0	3909	3	US-09-043-816B-12	Sequence 12, Appl
c 300	US-09-949-016-183857	3	601	15.6	65.0	Sequence 183857,	c 373	15.6	65.0	3909	3	US-10-014-156-12	Sequence 12, Appl
c 301	US-09-949-016-188921	3	601	15.6	65.0	Sequence 188921,	c 374	15.6	65.0	4102	3	US-08-780-562-1	Sequence 1, Appl
c 302	US-09-949-016-193808	3	601	15.6	65.0	Sequence 193808,	c 375	15.6	65.0	5217	3	US-09-100-703A-25	Sequence 25, Appl
c 303	US-09-949-016-195194	3	601	15.6	65.0	Sequence 195194,	c 376	15.6	65.0	5230	3	US-09-100-703A-26	Sequence 26, Appl
c 304	US-09-949-016-201245	3	601	15.6	65.0	Sequence 201245,	c 377	15.6	65.0	5230	3	US-09-838-718A-5	Sequence 5, Appl
c 305	US-09-949-016-201359	3	601	15.6	65.0	Sequence 201359,	c 378	15.6	65.0	5231	3	US-09-100-703A-27	Sequence 27, Appl
c 306	US-09-949-016-202183	3	601	15.6	65.0	Sequence 202183,	c 379	15.6	65.0	5270	3	US-09-838-718A-7	Sequence 7, Appl
c 307	US-09-949-002-2230	3	601	15.6	65.0	Sequence 2230, Ap	c 380	15.6	65.0	5870	3	US-09-838-718A-8	Sequence 8, Appl
c 308	US-09-949-002-3078	3	601	15.6	65.0	Sequence 3078, Ap	c 381	15.6	65.0	5906	3	US-09-838-718A-6	Sequence 6, Appl
c 309	US-09-949-002-3079	3	601	15.6	65.0	Sequence 3079, Ap	c 382	15.6	65.0	6109	3	US-09-795-061-1	Sequence 1, Appl
c 310	US-09-949-002-3080	3	601	15.6	65.0	Sequence 3080, Ap	c 383	15.6	65.0	6153	3	US-09-949-016-14584	Sequence 14584, A
c 311	US-09-949-002-3080	3	601	15.6	65.0	Sequence 3080, Ap	c 384	15.6	65.0	6452	3	US-08-836-325-9	Sequence 9, Appl
c 312	US-09-949-002-3081	3	601	15.6	65.0	Sequence 3081, Ap	c 385	15.6	65.0	6452	3	US-09-457-571-9	Sequence 9, Appl
c 313	US-09-949-002-3082	3	601	15.6	65.0	Sequence 3082, Ap	c 386	15.6	65.0	6506	3	US-09-453-702B-1	Sequence 1, Appl
c 314	US-09-949-002-6509	3	601	15.6	65.0	Sequence 6509, Ap	c 387	15.6	65.0	6506	3	US-10-114-170-1	Sequence 1, Appl
c 315	US-09-949-002-6510	3	601	15.6	65.0	Sequence 6510, Ap	c 388	15.6	65.0	7052	3	US-09-949-016-16797	Sequence 16797, A
c 316	US-09-949-002-6511	3	601	15.6	65.0	Sequence 6511, Ap	c 389	15.6	65.0	8195	3	US-08-961-527-9-9	Sequence 94, Appl

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C 18	18.2	75.8	620	4	US-09-925-065A-43628
C 19	18.2	75.8	620	4	US-09-925-065A-43629
C 20	18.2	75.8	666	5	US-10-198-846-11501
C 21	18.2	75.8	710	4	US-09-925-065A-901284
C 22	18.2	75.8	712	4	US-09-925-065A-909425
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26	18.2	75.8	3280	5	US-10-027-632-265884	Sequence 265884, A
27	18.2	75.8	3280	6	US-10-027-632-265883	Sequence 265883, A
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32	18.2	75.8	150275	9	US-10-981-277-55	Sequence 55, Appl
33	17.8	74.2	353	3	US-09-955-999-35	Sequence 35, Appl
34	17.8	74.2	499	4	US-09-925-065A-71693	Sequence 71693, A
35	17.8	74.2	633	4	US-09-925-065A-778469	Sequence 778469, A
36	17.8	74.2	633	4	US-09-925-065A-778470	Sequence 778470, A
37	17.8	74.2	690	4	US-09-925-065A-933726	Sequence 933726, A
C 38	17.8	74.2	716	3	US-09-910-943-201	Sequence 201, Appl
39	17.8	74.2	1863	3	US-09-997-722-72	Sequence 72, Appl
40	17.8	74.2	4366	3	US-09-997-722-71	Sequence 71, Appl
41	17.8	74.2	4366	3	US-10-366-288-3	Sequence 3, Appl
42	17.8	74.2	4839	10	US-11-097-143-19204	Sequence 19204, A
43	17.8	74.2	6381	6	US-10-007-926A-45	Sequence 45, Appl
44	17.8	74.2	6383	3	US-09-954-531-405	Sequence 405, Appl
45	17.8	74.2	6383	9	US-10-843-641A-1472	Sequence 1472, Appl
46	17.8	74.2	6383	9	US-10-503-599-19	Sequence 19, Appl
47	17.8	74.2	6401	9	US-10-450-763-15907	Sequence 2, Appl
C 48	17.8	74.2	92563	3	US-09-997-722-70	Sequence 70, Appl
49	17.8	74.2	337344	8	US-10-388-838-58	Sequence 58, Appl
C 50	17.8	74.2	337344	8	US-09-925-065A-152886	Sequence 152886, A
C 51	17.6	73.3	547	4	US-10-023-386-4806	Sequence 4806, Appl
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53	17.6	73.3	611	4	US-09-925-065A-160450	Sequence 160450, A
54	17.6	73.3	611	4	US-09-925-065A-748521	Sequence 748521, A
C 55	17.6	73.3	624	4	US-09-925-065A-860369	Sequence 860369, A
56	17.6	73.3	669	4	US-09-925-065A-864650	Sequence 864650, A
57	17.6	73.3	687	4	US-10-027-632-101881	Sequence 101881, A
C 58	17.6	73.3	752	5	US-10-027-632-101881	Sequence 101881, A
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C 61	17.6	73.3	202814	8	US-10-719-993-6812	Sequence 6812, Appl
C 62	17.4	72.5	2144	4	US-09-925-065A-92746	Sequence 92746, A
C 63	17.4	72.5	192992	9	US-10-461-862-95	Sequence 95, Appl
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C 66	17.2	71.7	421	7	US-10-242-535A-43905	Sequence 43905, A
C 67	17.2	71.7	421	7	US-10-085-783A-43905	Sequence 43905, A
C 68	17.2	71.7	448	3	US-09-864-761-1814	Sequence 1814, Appl
C 69	17.2	71.7	477	5	US-10-027-632-280554	Sequence 280554, A
C 70	17.2	71.7	477	6	US-10-027-632-280554	Sequence 280554, A
71	17.2	71.7	483	3	US-09-864-761-5905	Sequence 5905, Appl
72	17.2	71.7	508	4	US-09-925-065A-648279	Sequence 648279, A
73	17.2	71.7	508	4	US-09-925-065A-648280	Sequence 648280, A
74	17.2	71.7	525	4	US-09-925-065A-530242	Sequence 530242, A
75	17.2	71.7	554	4	US-09-925-065A-779553	Sequence 779553, A
C 76	17.2	71.7	556	9	US-10-779-543-21325	Sequence 21325, A
77	17.2	71.7	586	4	US-09-925-065A-641182	Sequence 641182, A
78	17.2	71.7	586	4	US-09-925-065A-641183	Sequence 641183, A
79	17.2	71.7	586	4	US-09-925-065A-641184	Sequence 641184, A
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C 81	17.2	71.7	589	5	US-10-027-632-239540	Sequence 239540, A
C 82	17.2	71.7	589	6	US-10-027-632-239540	Sequence 239540, A
C 83	17.2	71.7	600	4	US-09-925-065A-260527	Sequence 260527, A
84	17.2	71.7	600	4	US-09-925-065A-260528	Sequence 260528, A
85	17.2	71.7	615	5	US-10-198-846-8859	Sequence 8859, Appl
C 86	17.2	71.7	623	4	US-09-925-065A-872366	Sequence 872366, A
C 87	17.2	71.7	623	4	US-09-925-065A-872367	Sequence 872367, A
88	17.2	71.7	647	4	US-09-925-065A-32255	Sequence 32255, A
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C 93	17.2	71.7	681	6	US-09-925-065A-89695	Sequence 89695, A
C 94	17.2	71.7	726	4	US-09-925-065A-89695	Sequence 89695, A
C 95	17.2	71.7	981	5	US-10-027-632-9997	Sequence 9997, Appl
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c 100	17.2	71.7	1041	5	US-10-027-632-262468	Sequence 262468,	c 173	15.8	70.0	669	5	US-10-027-632-259818	Sequence 259818,
c 101	17.2	71.7	1190	5	US-10-198-846-11322	Sequence 11322, A	c 174	15.8	70.0	669	6	US-10-027-632-259814	Sequence 259814,
c 102	17.2	71.7	1190	5	US-09-925-065A-23209	Sequence 23209, A	c 175	15.8	70.0	669	6	US-10-027-632-259815	Sequence 259815,
c 103	17.2	71.7	1290	4	US-09-925-065A-49211	Sequence 49211, A	c 176	15.8	70.0	669	6	US-10-027-632-259816	Sequence 259816,
c 104	17.2	71.7	1290	4	US-09-925-065A-49212	Sequence 49212, A	c 177	15.8	70.0	669	6	US-10-027-632-259817	Sequence 259817,
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c 117	17.2	71.7	2306	8	US-10-278-698-561	Sequence 561, Appl	c 190	15.8	70.0	866	8	US-10-425-115-43772	Sequence 143772, A
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c 119	17.2	71.7	2308	5	US-10-207-655-171	Sequence 171, Appl	c 192	15.8	70.0	2172	10	US-11-037-143-13670	Sequence 13670, A
c 120	17.2	71.7	2308	7	US-10-052-482-113	Sequence 113, Appl	c 193	15.8	70.0	2194	4	US-09-925-065A-672808	Sequence 672808,
c 121	17.2	71.7	2335	7	US-10-641-643-1312	Sequence 1312, Appl	c 194	15.8	70.0	2194	4	US-09-925-065A-672809	Sequence 672809,
c 122	17.2	71.7	2335	9	US-10-929-182-3	Sequence 3, Appl	c 195	15.8	70.0	2194	4	US-09-925-065A-672810	Sequence 672810,
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c 124	17.2	71.7	2352	6	US-10-108-260A-1423	Sequence 1423, Ap	c 197	15.8	70.0	3001	6	US-10-147-603-158	Sequence 158, App
c 125	17.2	71.7	4336	10	US-11-097-143-14980	Sequence 14980, A	c 198	15.8	70.0	4578	10	US-11-097-143-13669	Sequence 13669, A
c 126	17.2	71.7	5456	6	US-10-349-680-166	Sequence 166, Appl	c 199	15.8	70.0	187986	8	US-10-741-600-17644	Sequence 17644, A
c 127	17.2	71.7	9456	6	US-10-242-355-740	Sequence 740, Appl	c 200	15.8	70.0	215221	5	US-10-087-192-1366	Sequence 1366, Ap
c 128	17.2	71.7	9456	7	US-10-052-482-91	Sequence 91, Appl	c 201	15.8	69.2	185	9	US-10-884-374-1156	Sequence 1156, Ap
c 129	17.2	71.7	43411	7	US-10-450-826-76	Sequence 76, Appl	c 202	15.8	69.2	187	7	US-10-242-535A-15380	Sequence 15380, A
c 130	17.2	71.7	53598	8	US-10-741-600-17744	Sequence 17744, A	c 203	15.8	69.2	187	7	US-10-085-783A-15380	Sequence 15380, A
c 131	17.2	71.7	56826	7	US-10-322-281-664	Sequence 664, Appl	c 204	15.8	69.2	206	3	US-09-984-429-570	Sequence 570, App
c 132	17.2	71.7	70351	7	US-10-052-482-112	Sequence 112, Appl	c 205	15.8	69.2	271	8	US-10-425-115-18354	Sequence 18354, A
c 133	17.2	71.7	80251	10	US-11-097-143-21904	Sequence 21904, A	c 206	15.8	69.2	294	7	US-10-242-535A-8355	Sequence 8355, Ap
c 134	17.2	71.7	80251	10	US-11-097-143-21913	Sequence 21913, A	c 207	15.8	69.2	294	7	US-10-085-783A-8355	Sequence 8355, Ap
c 135	17.2	71.7	93112	8	US-10-741-600-17618	Sequence 17618, A	c 208	15.8	69.2	300	9	US-10-779-543-7463	Sequence 7463, Ap
c 136	17.2	71.7	98948	7	US-10-322-281-290	Sequence 290, Appl	c 209	15.8	69.2	308	8	US-10-357-930-50535	Sequence 50535, A
c 137	17.2	71.7	129042	5	US-10-087-192-1240	Sequence 1240, Appl	c 210	15.8	69.2	309	7	US-10-424-599-124264	Sequence 124264,
c 138	17.2	71.7	185548	5	US-10-175-523-62	Sequence 62, Appl	c 211	15.8	69.2	313	3	US-09-777-564-550	Sequence 550, App
c 139	17.2	71.7	185548	10	US-11-099-286-62	Sequence 62, Appl	c 212	15.8	69.2	313	5	US-10-015-219-550	Sequence 550, App
c 140	17.2	71.7	219715	8	US-10-417-375-63	Sequence 63, Appl	c 213	15.8	69.2	319	3	US-09-942-052-724	Sequence 724, App
c 141	17.2	71.7	295096	5	US-10-087-192-331	Sequence 331, Appl	c 214	15.8	69.2	319	3	US-09-942-052-725	Sequence 725, App
c 142	17.2	71.7	350764	5	US-10-087-192-1864	Sequence 1864, Appl	c 215	15.8	69.2	319	3	US-09-942-052-726	Sequence 726, App
c 143	17.2	71.7	653122	5	US-10-087-192-226	Sequence 226, Appl	c 216	15.8	69.2	354	7	US-10-335-977-1246	Sequence 1246, Ap
c 144	16.8	70.0	301	8	US-10-741-600-32948	Sequence 32948, A	c 217	15.8	69.2	355	7	US-10-424-599-82022	Sequence 82022, A
c 145	16.8	70.0	335	3	US-09-960-706-530	Sequence 530, Appl	c 218	15.8	69.2	370	7	US-10-424-599-34505	Sequence 34505, A
c 146	16.8	70.0	335	3	US-09-873-319-324	Sequence 324, Appl	c 219	15.8	69.2	378	3	US-09-864-408A-1533	Sequence 1533, Ap
c 147	16.8	70.0	343	3	US-09-867-701-8043	Sequence 8043, Appl	c 220	15.8	69.2	383	9	US-10-779-543-11835	Sequence 11835, A
c 148	16.8	70.0	367	3	US-09-864-408A-8739	Sequence 8739, Appl	c 221	15.8	69.2	397	3	US-09-960-352-2632	Sequence 2632, Ap
c 149	16.8	70.0	438	8	US-10-425-115-82908	Sequence 82908, A	c 222	15.8	69.2	398	3	US-10-972-079-59339	Sequence 59339, A
c 150	16.8	70.0	498	5	US-09-777-564-997	Sequence 997, Appl	c 223	15.8	69.2	398	3	US-09-960-352-2173	Sequence 2173, Ap
c 151	16.8	70.0	498	5	US-10-015-219-997	Sequence 997, Appl	c 224	15.8	69.2	410	4	US-09-925-065A-222304	Sequence 222304,
c 152	16.8	70.0	534	7	US-10-767-701-22890	Sequence 22890, A	c 225	15.8	69.2	410	4	US-10-424-599-104274	Sequence 104274,
c 153	16.8	70.0	549	4	US-09-925-065A-63556	Sequence 63556, A	c 226	15.8	69.2	422	9	US-10-631-467-1069	Sequence 1069, Ap
c 154	16.8	70.0	549	4	US-09-925-065A-63557	Sequence 63557, A	c 227	15.8	69.2	423	3	US-09-918-995-4943	Sequence 4943, Ap
c 155	16.8	70.0	549	4	US-09-925-065A-63558	Sequence 63558, A	c 228	15.8	69.2	429	3	US-09-960-352-887	Sequence 887, App
c 156	16.8	70.0	556	6	US-10-029-386-1429	Sequence 1429, Appl	c 229	15.8	69.2	440	7	US-10-242-535A-51625	Sequence 51625, A
c 157	16.8	70.0	600	9	US-10-972-079-43007	Sequence 43007, A	c 230	15.8	69.2	440	7	US-10-085-783A-51625	Sequence 51625, A
c 158	16.8	70.0	617	4	US-09-925-065A-86710	Sequence 86710, A	c 231	15.8	69.2	472	7	US-10-242-535A-57775	Sequence 57775, A
c 159	16.8	70.0	617	4	US-09-925-065A-875031	Sequence 875031, A	c 232	15.8	69.2	472	7	US-10-085-783A-57775	Sequence 57775, A
c 160	16.8	70.0	620	4	US-09-925-065A-920444	Sequence 920444, A	c 233	15.8	69.2	476	5	US-10-027-632-266715	Sequence 266715,
c 161	16.8	70.0	640	5	US-10-027-632-256917	Sequence 256917, A	c 234	15.8	69.2	476	5	US-10-027-632-266716	Sequence 266716,
c 162	16.8	70.0	640	5	US-10-027-632-256917	Sequence 256917, A	c 235	15.8	69.2	476	6	US-10-027-632-266715	Sequence 266715,
c 163	16.8	70.0	656	5	US-10-027-632-113470	Sequence 113470, A	c 236	15.8	69.2	476	6	US-10-027-632-266716	Sequence 266716,
c 164	16.8	70.0	656	5	US-10-027-632-113471	Sequence 113471, A	c 237	15.8	69.2	476	7	US-10-242-535A-26935	Sequence 26935, A
c 165	16.8	70.0	656	5	US-10-027-632-113472	Sequence 113472, A	c 238	15.8	69.2	476	7	US-10-085-783A-26935	Sequence 26935, A
c 166	16.8	70.0	656	6	US-10-027-632-113470	Sequence 113470, A	c 239	15.8	69.2	480	3	US-09-867-701-1451	Sequence 1451, Ap
c 167	16.8	70.0	656	6	US-10-027-632-113471	Sequence 113471, A	c 240	15.8	69.2	489	5	US-10-027-632-210253	Sequence 210253,
c 168	16.8	70.0	656	6	US-10-027-632-113472	Sequence 113472, A	c 241	15.8	69.2	489	6	US-10-027-632-210253	Sequence 210253,
c 169	16.8	70.0	669	5	US-10-027-632-259814	Sequence 259814,	c 242	15.8	69.2	493	4	US-09-925-065A-289974	Sequence 289974,

C 243	16.6	69.2	493	4	US-09-925-065A-289975	Sequence 289975, A	C 316	16.6	69.2	657	4	US-09-925-065A-772812	Sequence 772812, A
C 244	16.6	69.2	498	5	US-10-027-632-85585	Sequence 85585, A	C 317	16.6	69.2	657	4	US-09-925-065A-831643	Sequence 831643, A
C 245	16.6	69.2	498	6	US-10-027-632-85585	Sequence 85585, A	C 318	16.6	69.2	658	4	US-09-925-065A-821999	Sequence 821999, A
C 246	16.6	69.2	509	4	US-09-925-065A-546788	Sequence 546788, A	C 319	16.6	69.2	659	4	US-09-925-065A-888075	Sequence 888075, A
C 247	16.6	69.2	513	4	US-09-925-065A-515238	Sequence 515238, A	C 320	16.6	69.2	659	4	US-09-925-065A-888076	Sequence 888076, A
C 248	16.6	69.2	524	4	US-09-925-065A-367953	Sequence 367953, A	C 321	16.6	69.2	663	5	US-10-027-632-17910	Sequence 17910, A
C 249	16.6	69.2	524	4	US-09-925-065A-367954	Sequence 367954, A	C 322	16.6	69.2	663	5	US-10-027-632-17910	Sequence 17910, A
C 250	16.6	69.2	525	5	US-10-027-632-239332	Sequence 239332, A	C 323	16.6	69.2	666	3	US-09-777-564-295	Sequence 295, App
C 251	16.6	69.2	525	5	US-10-027-632-239333	Sequence 239333, A	C 324	16.6	69.2	666	3	US-09-925-065A-879486	Sequence 879486, A
C 252	16.6	69.2	525	6	US-10-027-632-239332	Sequence 239332, A	C 325	16.6	69.2	666	5	US-10-015-219-295	Sequence 295, App
C 253	16.6	69.2	526	6	US-10-027-632-239333	Sequence 239333, A	C 326	16.6	69.2	667	4	US-09-925-065A-873995	Sequence 873995, A
C 254	16.6	69.2	526	7	US-10-242-535A-45554	Sequence 45554, A	C 327	16.6	69.2	668	4	US-09-925-065A-864651	Sequence 864651, A
C 255	16.6	69.2	526	7	US-10-085-783A-45554	Sequence 45554, A	C 328	16.6	69.2	687	4	US-09-925-065A-426467	Sequence 426467, A
C 256	16.6	69.2	529	4	US-09-925-065A-826640	Sequence 826640, A	C 329	16.6	69.2	767	5	US-10-027-632-124718	Sequence 124718, A
C 257	16.6	69.2	529	4	US-09-925-065A-826641	Sequence 826641, A	C 330	16.6	69.2	767	5	US-10-027-632-124718	Sequence 124718, A
C 258	16.6	69.2	531	4	US-09-925-065A-230283	Sequence 230283, A	C 331	16.6	69.2	770	3	US-09-938-842A-4714	Sequence 4714, App
C 259	16.6	69.2	531	4	US-09-925-065A-665995	Sequence 665995, A	C 332	16.6	69.2	770	3	US-09-938-842A-4714	Sequence 4714, App
C 260	16.6	69.2	532	4	US-09-925-065A-154086	Sequence 154086, A	C 333	16.6	69.2	792	7	US-10-335-977-1247	Sequence 1247, App
C 261	16.6	69.2	539	4	US-09-925-065A-98494	Sequence 98494, A	C 334	16.6	69.2	828	7	US-10-335-977-1248	Sequence 1248, App
C 262	16.6	69.2	545	4	US-09-925-065A-666824	Sequence 666824, A	C 335	16.6	69.2	843	7	US-10-424-599-48159	Sequence 48159, A
C 263	16.6	69.2	549	4	US-09-925-065A-244359	Sequence 244359, A	C 336	16.6	69.2	875	3	US-09-814-353-21558	Sequence 21558, A
C 264	16.6	69.2	549	4	US-09-925-065A-244360	Sequence 244360, A	C 337	16.6	69.2	894	4	US-09-925-065A-681755	Sequence 681755, A
C 265	16.6	69.2	549	4	US-09-925-065A-221236	Sequence 221236, A	C 338	16.6	69.2	894	4	US-09-925-065A-681756	Sequence 681756, A
C 266	16.6	69.2	565	4	US-09-925-065A-553433	Sequence 553433, A	C 339	16.6	69.2	897	7	US-10-335-977-1249	Sequence 1249, App
C 267	16.6	69.2	568	4	US-09-925-065A-914162	Sequence 914162, A	C 340	16.6	69.2	948	8	US-10-774-355A-418	Sequence 418, App
C 268	16.6	69.2	576	5	US-10-027-632-271137	Sequence 271137, A	C 341	16.6	69.2	952	5	US-10-106-698-1999	Sequence 1999, App
C 269	16.6	69.2	576	6	US-10-027-632-271137	Sequence 271137, A	C 342	16.6	69.2	977	4	US-09-925-065A-681565	Sequence 681565, A
C 270	16.6	69.2	579	4	US-09-925-065A-129548	Sequence 129548, A	C 343	16.6	69.2	977	4	US-09-925-065A-681566	Sequence 681566, A
C 271	16.6	69.2	583	4	US-09-925-065A-129548	Sequence 129548, A	C 344	16.6	69.2	977	4	US-09-925-065A-681567	Sequence 681567, A
C 272	16.6	69.2	584	4	US-09-925-065A-88570	Sequence 88570, A	C 345	16.6	69.2	977	4	US-09-925-065A-681568	Sequence 681568, A
C 273	16.6	69.2	586	4	US-09-925-065A-905187	Sequence 905187, A	C 346	16.6	69.2	977	4	US-09-925-065A-681569	Sequence 681569, A
C 274	16.6	69.2	586	8	US-10-357-930-59324	Sequence 59324, A	C 347	16.6	69.2	987	4	US-09-925-065A-64697	Sequence 64697, A
C 275	16.6	69.2	589	4	US-09-925-065A-862930	Sequence 862930, A	C 348	16.6	69.2	987	4	US-09-925-065A-64698	Sequence 64698, A
C 276	16.6	69.2	591	4	US-09-925-065A-882914	Sequence 882914, A	C 349	16.6	69.2	1104	4	US-09-925-065A-671500	Sequence 671500, A
C 277	16.6	69.2	594	4	US-09-925-065A-826039	Sequence 826039, A	C 350	16.6	69.2	1143	3	US-09-956-999-6	Sequence 6, Appl
C 278	16.6	69.2	599	4	US-09-925-065A-255340	Sequence 255340, A	C 351	16.6	69.2	1157	8	US-10-767-795-6327	Sequence 6327, App
C 279	16.6	69.2	600	9	US-10-972-079-18546	Sequence 18546, A	C 352	16.6	69.2	1158	9	US-10-840-060-148	Sequence 148, App
C 280	16.6	69.2	601	4	US-09-925-065A-947567	Sequence 947567, A	C 353	16.6	69.2	1203	3	US-09-971-392-77	Sequence 77, Appl
C 281	16.6	69.2	602	4	US-09-925-065A-816785	Sequence 816785, A	C 354	16.6	69.2	1203	3	US-10-765-700-100	Sequence 100, App
C 282	16.6	69.2	603	4	US-09-925-065A-536555	Sequence 536555, A	C 355	16.6	69.2	1223	5	US-10-027-632-255721	Sequence 255721, A
C 283	16.6	69.2	607	4	US-09-925-065A-630057	Sequence 630057, A	C 356	16.6	69.2	1223	6	US-10-027-632-255721	Sequence 255721, A
C 284	16.6	69.2	610	7	US-10-424-599-57852	Sequence 57852, A	C 357	16.6	69.2	1257	7	US-10-282-122A-11217	Sequence 11217, A
C 285	16.6	69.2	611	5	US-10-027-632-263085	Sequence 263085, A	C 358	16.6	69.2	1262	3	US-09-942-052-727	Sequence 727, App
C 286	16.6	69.2	611	5	US-10-027-632-263086	Sequence 263086, A	C 359	16.6	69.2	1450	3	US-10-764-420-2491	Sequence 2491, App
C 287	16.6	69.2	611	6	US-10-027-632-263085	Sequence 263085, A	C 360	16.6	69.2	1539	4	US-09-925-065A-711436	Sequence 711436, A
C 288	16.6	69.2	611	6	US-10-027-632-263086	Sequence 263086, A	C 361	16.6	69.2	1539	4	US-09-925-065A-711437	Sequence 711437, A
C 289	16.6	69.2	613	4	US-09-925-065A-756697	Sequence 756697, A	C 362	16.6	69.2	1604	9	US-10-450-763-1191	Sequence 1191, App
C 290	16.6	69.2	613	4	US-09-925-065A-756698	Sequence 756698, A	C 363	16.6	69.2	1604	9	US-10-450-763-4487	Sequence 4487, App
C 291	16.6	69.2	615	4	US-09-925-065A-629248	Sequence 629248, A	C 364	16.6	69.2	1608	5	US-10-171-581-199	Sequence 199, App
C 292	16.6	69.2	615	4	US-09-925-065A-629249	Sequence 629249, A	C 365	16.6	69.2	1608	6	US-10-172-118-1067	Sequence 1067, App
C 293	16.6	69.2	617	4	US-09-925-065A-784668	Sequence 784668, A	C 366	16.6	69.2	1608	7	US-10-342-887-1067	Sequence 1067, App
C 294	16.6	69.2	617	5	US-10-027-632-287606	Sequence 287606, A	C 367	16.6	69.2	1610	4	US-09-925-065A-549107	Sequence 549107, A
C 295	16.6	69.2	617	6	US-10-027-632-287606	Sequence 287606, A	C 368	16.6	69.2	1610	4	US-09-925-065A-549108	Sequence 549108, A
C 296	16.6	69.2	620	5	US-10-027-632-224620	Sequence 224620, A	C 369	16.6	69.2	1615	7	US-10-322-281-46	Sequence 46, Appl
C 297	16.6	69.2	620	6	US-10-027-632-224620	Sequence 224620, A	C 370	16.6	69.2	1620	9	US-10-450-763-29277	Sequence 29277, A
C 298	16.6	69.2	624	5	US-10-027-632-236728	Sequence 236728, A	C 371	16.6	69.2	1627	6	US-10-159-563-128	Sequence 128, App
C 299	16.6	69.2	624	5	US-10-027-632-236728	Sequence 236728, A	C 372	16.6	69.2	1627	6	US-09-925-065A-44889	Sequence 44889, A
C 300	16.6	69.2	629	6	US-10-027-632-217402	Sequence 217402, A	C 373	16.6	69.2	1638	4	US-09-925-065A-44890	Sequence 44890, A
C 301	16.6	69.2	629	6	US-10-027-632-217402	Sequence 217402, A	C 374	16.6	69.2	1796	7	US-10-424-599-76959	Sequence 76959, A
C 302	16.6	69.2	632	4	US-09-925-065A-332041	Sequence 332041, A	C 375	16.6	69.2	1878	7	US-10-424-599-88967	Sequence 88967, A
C 303	16.6	69.2	633	5	US-10-027-632-204381	Sequence 204381, A	C 376	16.6	69.2	1928	9	US-10-631-467-1215	Sequence 1215, App
C 304	16.6	69.2	633	6	US-10-027-632-204381	Sequence 204381, A	C 377	16.6	69.2	2025	7	US-10-437-963-54359	Sequence 54359, A
C 305	16.6	69.2	636	4	US-09-925-065A-798900	Sequence 798900, A	C 378	16.6	69.2	2045	7	US-10-424-599-27456	Sequence 27456, A
C 306	16.6	69.2	637	5	US-10-027-632-206951	Sequence 206951, A	C 379	16.6	69.2	2058	7	US-10-001-192A-16	Sequence 16, Appl
C 307	16.6	69.2	637	6	US-10-027-632-206951	Sequence 206951, A	C 380	16.6	69.2	2377	10	US-11-070-405-26	Sequence 26, Appl
C 308	16.6	69.2	638	4	US-09-925-065A-918601	Sequence 918601, A	C 381	16.6	69.2	2386	4	US-09-925-065A-718255	Sequence 718255, A
C 309	16.6	69.2	638	4	US-09-925-065A-918602	Sequence 918602, A	C 382	16.6	69.2	2386	4	US-09-925-065A-718256	Sequence 718256, A
C 310	16.6	69.2	638	4	US-09-925-065A-945205	Sequence 945205, A	C 383	16.6	69.2	2386	4	US-09-925-065A-718257	Sequence 718257, A
C 311	16.6	69.2	643	4	US-09-925-065A-444278	Sequence 444278, A	C 384	16.6	69.2	2386	4	US-09-925-065A-718258	Sequence 718258, A
C 312	16.6	69.2	644	4	US-09-925-065A-924177	Sequence 924177, A	C 385	16.6	69.2	2395	4	US-09-925-065A-673838	Sequence 673838, A
C 313	16.6	69.2	650	4	US-09-925-065A-717413	Sequence 717413, A	C 386	16.6	69.2	2909	6	US-10-172-118-276	Sequence 276, App
C 314	16.6	69.2	650	4	US-09-925-065A-717414	Sequence 717414, A	C 387	16.6	69.2	2909	7	US-10-342-887-276	Sequence 276, App
C 315	16.6	69.2	653	8	US-10-425-115-125590	Sequence 125590, A	C 388	16.6	69.2	2940	7	US-10-437-963-39550	Sequence 39550, A

389	16.6	69.2	3206	5	US-10-027-632-114097	Sequence 114097,	462	16.2	67.5	25	7	US-10-719-956-20435	Sequence 20435, A
390	16.6	69.2	3206	6	US-10-027-632-114097	Sequence 114097,	463	16.2	67.5	25	8	US-10-719-900-954093	Sequence 954093,
391	16.6	69.2	3856	9	US-10-840-060-205	Sequence 205, App	c 464	16.2	67.5	25	10	US-11-036-317-362297	Sequence 362297,
392	16.6	69.2	3886	8	US-10-425-115-160348	Sequence 160348,	c 465	16.2	67.5	25	10	US-11-036-317-362297	Sequence 448856,
393	16.6	69.2	4056	6	US-10-144-194A-85	Sequence 85, Appl	466	16.2	67.5	169	8	US-10-425-115-80859	Sequence 80859, A
394	16.6	69.2	4056	8	US-10-491-196A-85	Sequence 85, Appl	c 467	16.2	67.5	201	8	US-10-719-993-43450	Sequence 43450, A
395	16.6	69.2	4056	5	US-10-717-665-55	Sequence 55, Appl	468	16.2	67.5	201	8	US-10-719-993-44226	Sequence 44226, A
396	16.6	69.2	4248	6	US-10-144-194A-83	Sequence 83, Appl	c 469	16.2	67.5	201	8	US-10-741-600-57209	Sequence 57209, A
397	16.6	69.2	4248	8	US-10-491-566-83	Sequence 83, Appl	c 470	16.2	67.5	276	7	US-10-424-599-73520	Sequence 73520, A
398	16.6	69.2	4248	8	US-10-491-566-83	Sequence 83, Appl	471	16.2	67.5	289	8	US-10-357-930-8360	Sequence 8360, Ap
399	16.6	69.2	4248	9	US-10-717-665-53	Sequence 53, Appl	c 472	16.2	67.5	315	8	US-10-357-930-60101	Sequence 60101, A
400	16.6	69.2	5171	9	US-10-437-963-33779	Sequence 330, App	c 473	16.2	67.5	322	3	US-09-998-598-1457	Sequence 1457, Ap
401	16.6	69.2	7200	3	US-09-853-450-48	Sequence 48, Appl	c 474	16.2	67.5	335	4	US-09-925-065A-606836	Sequence 606836,
402	16.6	69.2	7200	8	US-10-794-923-48	Sequence 48, Appl	475	16.2	67.5	337	3	US-09-770-791-889	Sequence 889, App
403	16.6	69.2	9909	6	US-10-264-283-87	Sequence 87, Appl	476	16.2	67.5	366	3	US-09-864-761-11158	Sequence 11158, A
404	16.6	69.2	9909	6	US-10-868-490A-3	Sequence 3, Appl	c 477	16.2	67.5	366	9	US-10-756-149-2421	Sequence 2421, Ap
405	16.6	69.2	20320	8	US-10-741-600-17910	Sequence 17910, A	478	16.2	67.5	404	4	US-09-925-065A-834886	Sequence 834886,
406	16.6	69.2	23063	3	US-09-764-891-5951	Sequence 5951, Ap	479	16.2	67.5	404	4	US-09-925-065A-834887	Sequence 834887,
407	16.6	69.2	24977	3	US-09-764-891-5951	Sequence 5951, Ap	c 480	16.2	67.5	405	4	US-09-925-065A-829776	Sequence 829776,
408	16.6	69.2	24977	3	US-09-764-891-5951	Sequence 5951, Ap	c 481	16.2	67.5	405	4	US-09-925-065A-829777	Sequence 829777,
409	16.6	69.2	24983	3	US-09-764-891-5950	Sequence 5950, Ap	c 482	16.2	67.5	408	8	US-10-357-930-4389	Sequence 4389, Ap
410	16.6	69.2	24983	3	US-09-764-891-5950	Sequence 5950, Ap	c 483	16.2	67.5	419	4	US-09-925-065A-558076	Sequence 558076,
411	16.6	69.2	26318	5	US-10-087-192-592	Sequence 592, App	c 484	16.2	67.5	419	4	US-09-925-065A-558077	Sequence 558077,
412	16.6	69.2	32429	3	US-09-764-891-7161	Sequence 7161, Ap	c 485	16.2	67.5	419	4	US-09-925-065A-558078	Sequence 558078,
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ALIGNMENTS

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 ; Publication No. US20050208506A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zhao, Chengyan
 ; APPLICANT: Ascenzi, Robert
 ; APPLICANT: Singh, Bijay K.
 ; TITLE OF INVENTION: Methods and Compositions for Analyzing
 ; TITLE OF INVENTION: AHASL Genes
 ; FILE REFERENCE: 038867/271254
 ; CURRENT APPLICATION NUMBER: US/10/805, 973
 ; CURRENT FILING DATE: 2004-03-22
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: FASTSEQ for Windows Version 4.0
 ; SEQ ID NO 7
 ; LENGTH: 24
 ; TYPE: DNA
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 ; OTHER INFORMATION: Primer 1D-R
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 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 GCACATCCCTACAAAGAGAGAT 24
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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

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(without alignments)
123.418 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

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Scoring table: IDENTITY_NUC

Gapop 10_0 , Gapext 1.0

Searched: 6247088 seqs, 457523669 residues

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	18.2	75.8	177623	11	US-11-112-908-41
5	17.8	74.2	50	11	US-11-175-859-88875
6	17.6	73.3	1415	7	US-10-750-185-37943
7	17.6	73.3	1415	7	US-10-750-623-37943
8	17.2	71.7	201	7	US-10-995-561-25441
9	17.2	71.7	201	7	US-10-995-561-25570
10	17.2	71.7	201	11	US-11-124-368A-8447
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13	17.2	71.7	201	11	US-11-124-367A-21619
14	17.2	71.7	76427	11	US-11-124-367A-5041
15	17.2	71.7	91561	11	US-11-124-368A-2896
16	17.2	71.7	93112	7	US-10-995-561-13234
17	17.2	71.7	138821	11	US-11-121-086-80
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24	16.8	70.0	187786	7	US-10-995-561-13474	Sequence 13474, A
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40	16.6	69.2	196200	11	US-11-121-086-9	Sequence 9, Appl
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42	16.6	69.2	321019	7	US-10-995-561-13204	Sequence 13204, A
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52	16.2	67.5	611	11	US-11-128-061-227	Sequence 227, App
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54	16.2	67.5	2572	11	US-11-024-959-11	Sequence 11, Appl
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76	15.8	65.8	1410	7	US-10-750-623-64102	Sequence 64102, A
77	15.8	65.8	1520	7	US-10-750-185-36183	Sequence 36183, A
78	15.8	65.8	1520	7	US-10-750-623-36183	Sequence 36183, A
79	15.8	65.8	1885	7	US-10-750-185-54854	Sequence 54854, A
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82	15.8	65.8	2074	7	US-10-750-623-48086	Sequence 48086, A
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84	15.8	65.8	28536	11	US-11-011-332A-156	Sequence 156, App
85	15.8	65.8	34554	6	US-10-893-483-49	Sequence 49, Appl
86	15.8	65.8	42060	11	US-11-124-367A-5040	Sequence 5040, Ap
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C 102	15.6	65.0	201	7	US-10-995-561-78983	Sequence 78983, A	C 175	15.6	65.0	14620	11	US-11-044-111-17	Sequence 17, Appl
C 103	15.6	65.0	201	11	US-11-124-367A-22895	Sequence 22895, A	C 176	15.6	65.0	35100	11	US-11-127-832-26	Sequence 26, Appl
C 104	15.6	65.0	201	11	US-11-124-367A-30948	Sequence 30948, A	C 177	15.6	65.0	59446	7	US-10-995-561-13479	Sequence 13479, A
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C 108	15.6	65.0	429	11	US-11-128-061-2407	Sequence 2407, Ap	C 181	15.6	65.0	74637	11	US-11-124-368A-2889	Sequence 2889, Ap
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C 111	15.6	65.0	429	11	US-11-128-049-6049	Sequence 6049, Ap	C 184	15.6	65.0	98716	7	US-10-995-561-13331	Sequence 13331, A
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C 122	15.6	65.0	600	7	US-10-750-185-856	Sequence 856, App	C 195	15.6	65.0	170837	11	US-11-121-086-97	Sequence 97, Appl
C 123	15.6	65.0	600	7	US-10-750-185-19901	Sequence 19901, A	C 196	15.6	65.0	171162	11	US-11-112-908-38	Sequence 38, Appl
C 124	15.6	65.0	600	7	US-10-750-623-60	Sequence 60, Appl	C 197	15.6	65.0	172147	11	US-11-112-908-22	Sequence 22, Appl
C 125	15.6	65.0	600	7	US-10-750-623-592	Sequence 592, App	C 198	15.6	65.0	172543	11	US-11-121-086-6	Sequence 6, Appli
C 126	15.6	65.0	600	7	US-10-750-623-856	Sequence 856, App	C 199	15.6	65.0	175023	11	US-11-121-086-18	Sequence 18, Appl
C 127	15.6	65.0	600	7	US-10-750-623-19901	Sequence 19901, A	C 200	15.6	65.0	176760	11	US-11-121-086-51	Sequence 51, Appl
C 128	15.6	65.0	905	11	US-11-136-527-1442	Sequence 1442, Ap	C 201	15.6	65.0	182314	11	US-11-112-908-45	Sequence 45, Appl
C 129	15.6	65.0	905	11	US-11-136-527-5538	Sequence 5538, Ap	C 202	15.6	65.0	182314	11	US-11-112-908-45	Sequence 45, Appl
C 130	15.6	65.0	958	7	US-10-750-185-45720	Sequence 45720, A	C 203	15.6	65.0	185393	11	US-11-121-086-101	Sequence 101, App
C 131	15.6	65.0	958	7	US-10-750-623-45720	Sequence 45720, A	C 204	15.6	65.0	187745	11	US-11-121-086-83	Sequence 83, Appl
C 132	15.6	65.0	960	7	US-10-750-185-39976	Sequence 39976, A	C 205	15.6	65.0	188056	11	US-11-130-925-1	Sequence 1, Appli
C 133	15.6	65.0	960	7	US-10-750-623-39976	Sequence 39976, A	C 206	15.6	65.0	197096	11	US-11-121-086-107	Sequence 107, App
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C 135	15.6	65.0	982	7	US-10-750-623-60933	Sequence 60933, A	C 208	15.6	65.0	201990	7	US-10-995-561-13303	Sequence 13303, A
C 136	15.6	65.0	1081	7	US-10-750-185-39830	Sequence 39830, A	C 209	15.6	65.0	212805	11	US-11-112-908-19	Sequence 19, Appl
C 137	15.6	65.0	1081	7	US-10-750-623-39830	Sequence 39830, A	C 210	15.6	65.0	387780	7	US-10-995-561-13259	Sequence 13259, A
C 138	15.6	65.0	1134	7	US-10-750-185-60933	Sequence 60933, A	C 211	15.6	65.0	403278	7	US-10-995-561-13421	Sequence 13421, A
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C 141	15.6	65.0	1263	7	US-10-750-185-38031	Sequence 38031, A	C 214	15.6	65.0	1080000	7	US-10-928-446A-181	Sequence 181, App
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C 143	15.6	65.0	1485	7	US-10-750-185-26181	Sequence 26181, A	C 216	15.6	65.0	1080000	7	US-10-928-446A-185	Sequence 185, App
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C 145	15.6	65.0	1485	7	US-10-750-623-26181	Sequence 26181, A	C 218	15.6	65.0	1080000	7	US-10-928-446A-189	Sequence 189, App
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C 151	15.6	65.0	1827	7	US-10-750-623-34195	Sequence 34195, A	C 224	15.6	65.0	1080000	7	US-10-928-446A-201	Sequence 201, App
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C 153	15.6	65.0	1897	7	US-10-750-623-38355	Sequence 38355, A	C 226	15.6	65.0	1691140	11	US-11-175-859-65089	Sequence 65089, A
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C 160	15.6	65.0	2517	7	US-10-750-185-64445	Sequence 64445, A	C 233	15.2	63.3	25	25	US-11-121-849-296068	Sequence 296068,
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 716.686 Seconds
(without alignments)
1586.285 Million cell updates/sec

Title: US-10-805-973-5

Perfect score: 20

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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	20	100.0	1674	6	AX705285 Sequence
4	20	100.0	1674	6	AX705287 Sequence
5	20	100.0	1674	6	AX705289 Sequence
6	20	100.0	1674	6	AX705291 Sequence
7	20	100.0	1675	6	AX705271 Sequence
8	20	100.0	1677	6	AX705293 Sequence
9	20	100.0	1797	15	AX210405 Triticum
10	20	100.0	1797	15	AX210407 Triticum
11	19	95.0	1524	6	AX705276 Sequence
12	19	95.0	1672	6	AX705273 Sequence
13	19	95.0	1674	6	AX705295 Sequence
14	19	95.0	1674	6	AX705297 Sequence
15	19	95.0	1674	6	AX705299 Sequence
16	19	95.0	1674	6	AX705301 Sequence
17	19	95.0	1674	6	AX705303 Sequence
18	19	95.0	1756	6	CQ969924 Sequence

19	19	95.0	1768	6	CQ969922	CQ969922 Sequence
20	19	95.0	1788	6	CQ969916	CQ969916 Sequence
21	19	95.0	1788	6	CQ969926	CQ969926 Sequence
22	19	95.0	1788	6	CQ969929	CQ969929 Sequence
23	19	95.0	1788	6	CQ969931	CQ969931 Sequence
24	19	95.0	1788	6	CQ969934	CQ969934 Sequence
25	19	95.0	1797	15	AY210406	AY210406 Triticum
26	19	95.0	1797	15	AY210408	AY210408 Triticum
27	19	95.0	2002	15	AF487459	AF487459 Bromus te
28	19	95.0	2002	15	AF488771	AF488771 Bromus te
29	18.4	92.0	617	15	AY273827	AY273827 Triticum
30	18.4	92.0	1524	6	AX705277	AX705277 Sequence
31	18.4	92.0	1710	6	CQ969938	CQ969938 Sequence
32	18.4	92.0	1723	6	CQ969920	CQ969920 Sequence
33	18.4	92.0	1788	6	CQ969928	CQ969928 Sequence
34	18.4	92.0	1788	6	CQ969930	CQ969930 Sequence
35	18.4	92.0	1788	6	CQ969932	CQ969932 Sequence
36	18.4	92.0	1788	6	CQ969936	CQ969936 Sequence
37	18.4	92.0	213473	9	AC134869	AC134869 Mus muscu
38	17.4	87.0	676	6	AX006313	AX006313 Sequence
39	17.4	87.0	1626	15	AF059600	AF059600 Hordeum v
40	17.4	87.0	2544	15	ZMAHAS109	X63554 Z. mays gene
41	17.4	87.0	3309	11	AY888076	AY888076 Synthetic
42	17.4	87.0	3410	6	CQ796784	CQ796784 Sequence
43	17.4	87.0	3410	8	AF327656	AF327656 Homo sapi
44	17.4	87.0	3860	8	BC035683	BC035683 Homo sapi
45	17.4	87.0	4134	6	A50263	A50263 Sequence 1
46	17.4	87.0	4137	6	A50265	A50265 Sequence 3
47	17.4	87.0	5162	6	AR026677	AR026677 Sequence
48	17.4	87.0	5214	8	HSM808489	BX648441 Homo sapi
49	17.4	87.0	5378	6	CQ715912	CQ715912 Sequence
50	17.4	87.0	5379	6	CS032001	CS032001 Sequence
51	17.4	87.0	5379	6	CS040953	CS040953 Sequence
52	17.4	87.0	5397	6	AX327655	AX327655 Sequence
53	17.4	87.0	5397	8	HSIDEM	X83368 H. sapiens m
54	17.4	87.0	107527	8	AC005018	AC005018 Homo sapi
55	17.4	87.0	186349	14	AC073420	AC073420 Homo sapi
56	17.4	87.0	189705	8	AC147093	AC147093 Pan trogl
57	16.8	84.0	1995	15	AF310684	AF310684 Lolium mu
58	16.8	84.0	2184	2	AF109778	AF109778 Metapenae
59	16.8	84.0	2340	2	AF109777	AF109777 Metapenae
60	16.8	84.0	3705	2	AF109776	AF109776 Metapenae
61	16.8	84.0	110000	1	CP000031	Continuation (16 o
62	16.8	84.0	110000	14	CT005271	Continuation (27 o
63	16.8	84.0	114419	8	AC106776	AC106776 Homo sapi
64	16.8	84.0	126422	14	AC162133	AC162133 Loxodonta
65	16.8	84.0	127243	8	AL359545	AL359545 Human DNA
66	16.8	84.0	143684	14	AC107323	AC107323 Felis cat
67	16.8	84.0	155332	9	AC154814	AC154814 Mus muscu
68	16.8	84.0	157711	8	AC055738	AC055738 Homo sapi
69	16.8	84.0	166952	14	AC160231	AC160231 Loxodonta
70	16.8	84.0	171280	14	AC024186	AC024186 Homo sapi
71	16.8	84.0	182246	14	AC163796	AC163796 Bos tauru
72	16.8	84.0	185573	9	AC127279	AC127279 Mus muscu
73	16.8	84.0	207945	8	CNS01DSS	AL121841 Human chr
74	16.8	84.0	209426	14	AC100750	AC100750 Mus muscu
75	16.8	84.0	220684	14	CT010581	CT010581 Mus muscu
76	16.8	84.0	254050	1	AF027269	AF027269 Salmonell
77	16.8	84.0	300029	1	AF016839	AF016839 Salmonell
78	16.8	84.0	318442	14	AC021652	AC021652 Homo sapi
79	16.8	84.0	346301	1	BX640432	BX640432 Bordetell
80	16.8	84.0	348642	1	BX640446	BX640446 Bordetell
81	16.8	84.0	349672	1	BX640419	BX640419 Bordetell
82	16.4	82.0	878	2	AY175375	AY175375 Branchios
83	16.4	82.0	1249	2	AK116389	AK116389 Ciona int
84	16.4	82.0	1328	9	BC045525	BC045525 Mus muscu
85	16.4	82.0	1668	6	AR136027	AR136027 Sequence
86	16.4	82.0	1668	6	BD205739	BD205739 Process f
87	16.4	82.0	1668	6	BD007541	BD007541 Process o
88	16.4	82.0	1671	6	AR385458	AR385458 Sequence
89	16.4	82.0	2080	9	MMU249413	MMU249413 Mus muscu
90	16.4	82.0	2467	13	AF002732	AF002732 Cydia pom
91	16.4	82.0	3000	1	KPU60992	U60992 Klebsiella

92	16.4	82.0	3117	6	Il6864	Il6864 Sequence 3	165	15.8	79.0	2649	9	AK129446	Mus muscu
93	16.4	82.0	3117	15	RS1AC2	Z54276 R. bolani ge	166	15.8	79.0	2767	9	BC014695	Mus muscu
94	16.4	82.0	3342	9	AF208345	AF208345 Mus muscu	167	15.8	79.0	2781	9	BC092263	Mus muscu
95	16.4	82.0	4330	9	BC051246	BC051246 Mus muscu	168	15.8	79.0	2848	6	QC0592955	Sequence
96	16.4	82.0	4330	9	MMU249280	MMU249280 Mus muscu	169	15.8	79.0	2892	5	BC049532	panio rer
c 97	16.4	82.0	5268	6	AR635070	AR635070 Sequence	c 170	15.8	79.0	3962	6	CQ8499311	Sequence
c 98	16.4	82.0	7926	1	KPU30903	U30903 Klebiella	c 171	15.8	79.0	3962	8	AK126979	Homo sapi
c 99	16.4	82.0	10789	1	AE009731	AE009731 Brucella	172	15.8	79.0	4284	8	AK090472	Homo sapi
c 100	16.4	82.0	11417	1	AD012546	AD012546 Xanthomon	173	15.8	79.0	4486	8	BC064980	Homo sapi
c 101	16.4	82.0	12144	6	BD205743	BD205743 Process f	174	15.8	79.0	4486	8	BC091648	Homo sapi
c 102	16.4	82.0	12145	6	AR136037	AR136037 Sequence	175	15.8	79.0	4492	6	BD127651	Primer fo
c 103	16.4	82.0	12145	6	AR221788	AR221788 Sequence	176	15.8	79.0	4492	6	CQ783447	Sequence
c 104	16.4	82.0	12145	6	AX082621	AX082621 Sequence	177	15.8	79.0	4492	8	AK075305	Homo sapi
c 105	16.4	82.0	12145	6	AX085388	AX085388 Sequence	178	15.8	79.0	4502	8	BC034039	Homo sapi
c 106	16.4	82.0	12145	6	BD007551	BD007551 Process o	179	15.8	79.0	5057	4	AY197355	Canis fam
c 107	16.4	82.0	13543	6	AR594222	AR594222 Sequence	180	15.8	79.0	5946	6	CQ587159	Sequence
c 108	16.4	82.0	13543	6	AX777142	AX777142 Sequence	181	15.8	79.0	6131	1	AY899910	Sequence
c 109	16.4	82.0	18652	5	BX927259	BX927259 Zebrafish	182	15.8	79.0	6449	6	CQ718925	Arthrobac
c 110	16.4	82.0	97687	1	CP000030_11	Continuation (12 o	183	15.8	79.0	6450	6	CQ776378	Sequence
c 111	16.4	82.0	110000	1	CP000091_25	Continuation (26 o	184	15.8	79.0	6450	6	CS031279	Sequence
c 112	16.4	82.0	110000	1	CP000091_26	Continuation (27 o	185	15.8	79.0	6450	6	CS040231	Sequence
c 113	16.4	82.0	110000	1	RMES1995_10	Continuation (11 o	186	15.8	79.0	6450	8	AB007938	Homo sapi
c 114	16.4	82.0	110000	1	AE044292_02	Continuation (3 of	187	15.8	79.0	6796	6	CQ596127	Sequence
c 115	16.4	82.0	110000	1	AE017224_09	Continuation (10 o	188	15.8	79.0	8202	2	DMCUT	
c 116	16.4	82.0	110000	1	AE017354_01	Continuation (2 of	189	15.8	79.0	10018	15	AF082072	Emericilla
c 117	16.4	82.0	110000	1	BA000035_26	Continuation (28 o	c 190	15.8	79.0	10029	1	AE007903	Agrobacte
c 118	16.4	82.0	110000	1	BA000035_27	Continuation (27 o	c 191	15.8	79.0	10808	1	AE004325	Vibriu ch
c 119	16.4	82.0	110000	1	CP000030_10	Continuation (11 o	c 192	15.8	79.0	11178	1	AE008956	Agrobacte
c 120	16.4	82.0	110000	1	CP000030_50	Continuation (51 o	c 193	15.8	79.0	13278	1	AE001701	Thermotog
c 121	16.4	82.0	123500	13	U53466	U53466 Cydia pomon	c 194	15.8	79.0	17734	9	AF279892	Rattus no
c 122	16.4	82.0	166104	9	AC155311	AC155311 Mus muscu	c 195	15.8	79.0	17807	14	AC012893	AC012893 Drosoephil
c 123	16.4	82.0	169571	14	AC136407	AC136407 Rattus no	c 196	15.8	79.0	18875	13	AY729654	AY729654 Sudan abo
c 124	16.4	82.0	171815	9	AL772257	AL772257 Mouse DNA	197	15.8	79.0	35615	1	MLCBB2407	AL023596 Mycobacte
c 125	16.4	82.0	178590	14	AC132894	AC132894 Mus muscu	198	15.8	79.0	36181	1	U00023	U00023 Mycobacteri
c 126	16.4	82.0	180976	5	CR450692	CR450692 Zebrafish	199	15.8	79.0	36181	6	AR345352	Sequence
c 127	16.4	82.0	186444	9	AC140284	AC140284 Mus muscu	200	15.8	79.0	39731	8	AC005760	Homo sapi
c 128	16.4	82.0	191102	14	AC153205	AC153205 Bos tauru	201	15.8	79.0	40702	1	AJ872269	Thermotog
c 129	16.4	82.0	191322	9	AC140314	AC140314 Mus muscu	202	15.8	79.0	43944	1	AJ872273	Thermotog
c 130	16.4	82.0	211754	14	AC103039	AC103039 Rattus no	203	15.8	79.0	45429	1	AJ872268	Thermotog
c 131	16.4	82.0	215143	14	AC165306	AC165306 Mus muscu	c 204	15.8	79.0	57416	7	AF448724	Sinorhizo
c 132	16.4	82.0	225480	14	AC106091	AC106091 Rattus no	205	15.8	79.0	61313	6	CQ363757	Sequence
c 133	16.4	82.0	226328	14	AC109575	AC109575 Rattus no	206	15.8	79.0	68110	14	AC124651	AC124651 Homo sapi
c 134	16.4	82.0	233774	14	AC110701	AC110701 Rattus no	c 207	15.8	79.0	78003	14	AC165769	AC165769 Bos tauru
c 135	16.4	82.0	235638	14	AC097984	AC097984 Rattus no	c 208	15.8	79.0	89047	6	AR408755	Sequence
c 136	16.4	82.0	247402	9	AC125187	AC125187 Mus muscu	c 209	15.8	79.0	89047	6	AR408755	Sequence
c 137	16.4	82.0	307337	1	BX842656	BX842656 Bdellobib	c 210	15.8	79.0	98734	5	BX323866	Zebrafish
c 138	16.4	82.0	313050	1	BX321857	BX321857 Nitrolobo	c 211	15.8	79.0	102539	8	AL591866	Human DNA
c 139	16	80.0	110000	1	BA000039_18	Continuation (19 o	c 212	15.8	79.0	103330	15	AC104428	AC104428 Oryza sat
c 140	16	80.0	110000	1	BA000040_53	Continuation (54 o	c 213	15.8	79.0	103853	14	AC153098	AC153098 Carollia
c 141	16	80.0	110000	15	AP008211_266	Continuation (267	c 214	15.8	79.0	109476	8	AL513548	Human DNA
c 142	16	80.0	115808	15	AC104713	AC104713 Oryza sat	215	15.8	79.0	110000	1	CR555306_11	Continuation (12 o
c 143	15.8	79.0	141	2	AF533548	AF533548 Lepceophth	216	15.8	79.0	110000	1	CR626927_47	Continuation (48 o
c 144	15.8	79.0	271	8	AY271122	AY271122 Homo sapi	217	15.8	79.0	110000	1	AE017283_01	Continuation (2 of
c 145	15.8	79.0	372	6	IT07762	IT07762 Sequence 18	218	15.8	79.0	110000	1	AP006841_48	Continuation (49 o
c 146	15.8	79.0	436	1	REMB011R2	AF116362 Rhizobium	c 219	15.8	79.0	110000	1	BA000012_05	Continuation (6 of
c 147	15.8	79.0	553	10	BV221247	BV221247 S233P6324	c 220	15.8	79.0	110000	1	BA000012_05	Continuation (17 o
c 148	15.8	79.0	602	10	BV308310	BV308310 S233P6422	c 221	15.8	79.0	110000	1	BA000040_84	Continuation (85 o
c 149	15.8	79.0	647	6	QC052956	QC052956 Sequence	c 222	15.8	79.0	110000	1	BA000045_20	Continuation (21 o
c 150	15.8	79.0	698	15	AY429331	AY429331 Begonia b	c 223	15.8	79.0	110000	1	CP000031_03	Continuation (4 of
c 151	15.8	79.0	706	15	AY429329	AY429329 Begonia b	c 224	15.8	79.0	110000	1	CP000031_04	Continuation (5 of
c 152	15.8	79.0	736	2	AY070637	AY070637 Drosophil	c 225	15.8	79.0	110000	1	CP000076_09	Continuation (10 o
c 153	15.8	79.0	741	6	AR508798	AR508798 Sequence	c 226	15.8	79.0	110000	2	CR954256_0	CR954256 Anopheles
c 154	15.8	79.0	813	2	AY070682	AY070682 Drosophil	c 227	15.8	79.0	110000	2	CR954256_1	Continuation (2 of
c 155	15.8	79.0	928	15	AK21986	AK21986 Oryza sat	c 228	15.8	79.0	110000	15	AP008217_197	Continuation (198
c 156	15.8	79.0	1119	15	BT019211	BT019211 Zea mays	229	15.8	79.0	110000	15	AP008217_210	Continuation (211
c 157	15.8	79.0	1299	5	BC063728	BC063728 Xenopus 1	230	15.8	79.0	110000	15	AP008218_106	Continuation (107
c 158	15.8	79.0	2084	6	BD084162	BD084162 28 human	c 231	15.8	79.0	110000	15	AP008209_034	Continuation (35 o
c 159	15.8	79.0	2084	6	AR229185	AR229185 Sequence	c 232	15.8	79.0	110000	15	AP008209_274	Continuation (275
c 160	15.8	79.0	2084	6	AR650402	AR650402 Sequence	c 233	15.8	79.0	110000	15	AP008211_011	Continuation (12 o
c 161	15.8	79.0	2084	6	AX810687	AX810687 Sequence	c 234	15.8	79.0	112158	8	HS126A5	AL031447 Human DNA
c 162	15.8	79.0	2396	6	CQ615215	CQ615215 Sequence	c 235	15.8	79.0	115093	8	AC091558	AC091558 Homo sapi
c 163	15.8	79.0	2466	9	BC083580	BC083580 Rattus no	c 236	15.8	79.0	120560	5	BX663610	BX663610 Zebrafish
c 164	15.8	79.0	2545	6	IT07769	IT07769 Sequence 25	c 237	15.8	79.0	122768	15	AC093088	AC093088 Oryza sat

c 238	15.8	79.0	125099	8	AC006251	AC006251 Homo sapi	311	15.8	79.0	269286	14	CT009662	CT009662 Mus muscu
c 239	15.8	79.0	126121	14	AC014963	AC014963 Drosophil	c 312	15.8	79.0	269286	14	CT009662	CT009662 Mus muscu
c 240	15.8	79.0	128885	8	AP004318	AP004318 Homo sapi	c 313	15.8	79.0	275373	14	CT013522	CT013522 Bos tauru
c 241	15.8	79.0	135011	14	CR381579	CR381579 Danio rer	c 314	15.8	79.0	280543	14	AC157065	AC157065 Bos tauru
c 242	15.8	79.0	135105	15	CNS08CA8	AL831795 Oryza sat	c 315	15.8	79.0	285949	2	AE003441	AE003441 Drosophil
c 243	15.8	79.0	137726	8	AC105919	AC105919 Homo sapi	c 316	15.8	79.0	294396	14	AC105485	AC105485 Rattus no
c 244	15.8	79.0	138345	15	AC105747	AC105747 Oryza sat	c 317	15.8	79.0	302325	1	AE017236	AE017236 Mycobacte
c 245	15.8	79.0	146524	8	AC092340	AC092340 Homo sapi	c 318	15.8	79.0	303022	2	AE003542	AE003542 Drosophil
c 246	15.8	79.0	150030	9	AL807820	AL807820 Mouse DNA	c 319	15.8	79.0	305584	1	AE016920	AE016920 Chromobac
c 247	15.8	79.0	151991	14	AC053535	AC053535 Homo sapi	c 320	15.8	79.0	306026	14	AC152327	AC152327 Bos tauru
c 248	15.8	79.0	152272	15	AC137589	AC137589 Oryza sat	c 321	15.8	79.0	308950	1	MLEPRTN9	MLEPRTN9 Mycobacte
c 249	15.8	79.0	152272	15	AC144558	AC144558 Oryza sat	c 322	15.8	79.0	347358	14	AC096620	AC096620 Rattus no
c 250	15.8	79.0	153612	14	AC157461	AC157461 Rhinolph	c 323	15.8	79.0	348971	1	BS572594	BS572594 Rhodopseu
c 251	15.8	79.0	154169	8	AC008962	AC008962 Homo sapi	c 324	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 252	15.8	79.0	154469	8	HSJ729N16	AL096707 Homo sapi	c 325	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 253	15.8	79.0	156397	14	AC164120	AC164120 Mus muscu	c 326	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 254	15.8	79.0	159070	14	AC128114	AC128114 Rattus no	c 327	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 255	15.8	79.0	161044	14	AC152359	AC152359 Carolinia	c 328	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 256	15.8	79.0	163587	14	AC158725	AC158725 Rhinolph	c 329	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 257	15.8	79.0	165318	14	AC101943	AC101943 Homo sapi	c 330	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 258	15.8	79.0	166451	14	AC136430	AC136430 Homo sapi	c 331	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 259	15.8	79.0	166451	14	AC069316	AC069316 Homo sapi	c 332	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 260	15.8	79.0	171127	14	AC024527	AC024527 Homo sapi	c 333	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 261	15.8	79.0	171534	14	AC152458	AC152458 Carolinia	c 334	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 262	15.8	79.0	172156	14	AL590237	AL590237 Homo sapi	c 335	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 263	15.8	79.0	172806	9	AC110252	AC110252 Mus muscu	c 336	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 264	15.8	79.0	175133	14	AC114312	AC114312 Homo sapi	c 337	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 265	15.8	79.0	177630	8	AC134978	AC134978 Homo sapi	c 338	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 266	15.8	79.0	178605	14	AC160869	AC160869 Orolemur	c 339	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 267	15.8	79.0	179052	14	AC161748	AC161748 Rhinolph	c 340	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 268	15.8	79.0	181054	14	AC149084	AC149084 Mus muscu	c 341	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 269	15.8	79.0	181921	14	AC132056	AC132056 Rattus no	c 342	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 270	15.8	79.0	182509	8	AC112211	AC112211 Homo sapi	c 343	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 271	15.8	79.0	183105	2	AC104606	AC104606 Drosophil	c 344	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 272	15.8	79.0	185061	14	AC062024	AC062024 Homo sapi	c 345	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 273	15.8	79.0	185134	9	AC134472	AC134472 Mus muscu	c 346	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 274	15.8	79.0	185415	8	HS121M24	AL354046 Homo sapi	c 347	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 275	15.8	79.0	186774	8	AC139887	AC139887 Homo sapi	c 348	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 276	15.8	79.0	186990	2	AC023678	AC023678 Drosophil	c 349	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 277	15.8	79.0	188761	9	AC154421	AC154421 Mus muscu	c 350	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 278	15.8	79.0	189088	14	AC146672	AC146672 Orolemur	c 351	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 279	15.8	79.0	190341	9	AC163632	AC163632 Mus muscu	c 352	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 280	15.8	79.0	190804	9	AL806520	AL806520 Mouse DNA	c 353	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 281	15.8	79.0	191481	14	AC108123	AC108123 Homo sapi	c 354	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 282	15.8	79.0	192297	9	AL805928	AL805928 Mouse DNA	c 355	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 283	15.8	79.0	193766	14	AC158897	AC158897 Bos tauru	c 356	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 284	15.8	79.0	194931	14	AC150948	AC150948 Bos tauru	c 357	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 285	15.8	79.0	197878	2	AC093437	AC093437 Drosophil	c 358	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 286	15.8	79.0	201377	14	AC073767	AC073767 Mus muscu	c 359	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 287	15.8	79.0	202438	14	CR931781	CR931781 Danio rer	c 360	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 288	15.8	79.0	203269	9	AC154448	AC154448 Mus muscu	c 361	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 289	15.8	79.0	205422	14	AC163557	AC163557 Bos tauru	c 362	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 290	15.8	79.0	205496	14	AC165202	AC165202 Oryctolag	c 363	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 291	15.8	79.0	207729	14	AC148194	AC148194 Callithr	c 364	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 292	15.8	79.0	208907	9	AC124128	AC124128 Mus muscu	c 365	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 293	15.8	79.0	211200	14	AC149045	AC149045 Orolemur	c 366	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 294	15.8	79.0	211693	14	AC105714	AC105714 Rattus no	c 367	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 295	15.8	79.0	213287	9	AC159329	AC159329 Mus muscu	c 368	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 296	15.8	79.0	215957	14	AC148950	AC148950 Orolemur	c 369	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 297	15.8	79.0	217393	9	AC158615	AC158615 Mus muscu	c 370	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 298	15.8	79.0	220077	9	AC074312	AC074312 Mus muscu	c 371	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 299	15.8	79.0	226059	9	AC079488	AC079488 Mus muscu	c 372	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 300	15.8	79.0	226576	2	CNS07EGE	AL590447 chromosom	c 373	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 301	15.8	79.0	228330	14	AC156319	AC156319 Bos tauru	c 374	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 302	15.8	79.0	228603	5	AC145942	AC145942 Gallus ga	c 375	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 303	15.8	79.0	229828	14	AC146735	AC146735 Orolemur	c 376	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 304	15.8	79.0	243275	14	AC073705	AC073705 Mus muscu	c 377	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 305	15.8	79.0	246177	9	AC132957	AC132957 Mus muscu	c 378	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 306	15.8	79.0	247655	9	AC145549	AC145549 Mus muscu	c 379	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 307	15.8	79.0	252403	14	AC137016	AC137016 Rattus no	c 380	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 308	15.8	79.0	261152	14	AC096964	AC096964 Rattus no	c 381	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 309	15.8	79.0	262886	14	AC121209	AC121209 Rattus no	c 382	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu
c 310	15.8	79.0	264127	14	AC094001	AC094001 Rattus no	c 383	15.8	79.0	349635	1	BS572603	BS572603 Rhodopseu

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 169.231 Seconds
(without alignments)
787.645 Million cell updates/sec

Title: US-10-805-973-5

Perfect score: 20

Sequence: 1 gggaggcgatcgccact 20

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

N_Geneseq_21.*
1: Geneseqn1980s.*
2: Geneseqn1990s.*
3: Geneseqn2000s.*
4: Geneseqn2001as.*
5: Geneseqn2001bs.*
6: Geneseqn2002as.*
7: Geneseqn2002bs.*
8: Geneseqn2003as.*
9: Geneseqn2003bs.*
10: Geneseqn2003cs.*
11: Geneseqn2003ds.*
12: Geneseqn2004as.*
13: Geneseqn2004bs.*
14: Geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	1524	10	ADFS0205 Wheat Tea
2	20	100.0	1673	10	ADFS0216 Wheat Tea
3	20	100.0	1674	10	ADFS0218 Wheat Tea
4	20	100.0	1674	10	ADFS0222 Wheat Tea
5	20	100.0	1674	10	ADFS0220 Wheat Tea
6	20	100.0	1675	10	ADFS0201 Wheat Tea
7	20	100.0	1677	10	ADFS0224 Wheat Tea
8	19	95.0	1524	10	ADFS0206 Wheat Tea
9	19	95.0	1672	10	ADFS0203 Wheat Tea
10	19	95.0	1673	10	ADFS0230 Wheat Tea
11	19	95.0	1673	10	ADFS0226 Wheat Tea
12	19	95.0	1673	10	ADFS0228 Wheat Tea
13	19	95.0	1674	10	ADFS0232 Wheat Tea
14	19	95.0	1674	10	ADFS0234 Wheat Tea
15	19	95.0	1756	14	ADVL1362 Imidazole
16	19	95.0	1768	14	ADVL1360 Imidazole
17	19	95.0	1788	14	ADVL1372 Durum whe
18	19	95.0	1788	14	ADVL1364 Durum whe
19	19	95.0	1788	14	ADVL1369 Durum whe

20	19	95.0	1788	14	ADVL1354	Advl1354 Imidazole
21	19	95.0	1788	14	ADVL1367	Advl1367 Durum whe
22	18.4	92.0	1524	10	ADFS0207	Adf50207 Wheat Tea
23	18.4	92.0	1710	14	ADVL1376	Advl1376 Imidazole
24	18.4	92.0	1723	14	ADVL1358	Advl1358 Imidazole
25	18.4	92.0	1788	14	ADVL1366	Advl1366 Durum whe
26	18.4	92.0	1788	14	ADVL1368	Advl1368 Durum whe
27	18.4	92.0	1788	14	ADVL1374	Advl1374 Durum whe
28	18.4	92.0	1788	14	ADVL1370	Advl1370 Durum whe
29	17.4	87.0	627	12	ADH68162	Adh68162 DNA encod
30	17.4	87.0	3237	12	ADH68166	Adh68166 DNA of a
31	17.4	87.0	3342	12	ADH68164	Adh68164 DNA encod
32	17.4	87.0	3410	12	ADM96266	Adm96266 Human pho
33	17.4	87.0	4134	2	AAT58545	Aat58545 Human pho
34	17.4	87.0	4137	2	AAT58546	Aat58546 Human pho
35	17.4	87.0	5162	2	AAV74104	Aav74104 Human G-p
36	17.4	87.0	5162	3	AAT58545	Aat58545 Human pho
37	17.4	87.0	5309	10	ADK41013	Adk41013 Novel hum
38	17.4	87.0	5309	11	ACN44895	Acn44895 Human mRN
39	17.4	87.0	5309	13	ADR15727	Adr15727 Kinase 33
40	17.4	87.0	5309	14	AEb32295	Aeb32295 Human cDN
41	17.4	87.0	5379	14	ADVL5701	Advl5701 DNA encod
42	17.4	87.0	5397	6	AAS14367	Aas14367 cDNA enco
43	17.4	87.0	5397	6	ABL59522	Ab159522 Human pho
44	17.4	87.0	5397	14	AEb32250	Aeb32250 Human cDN
45	17.4	87.0	5410	13	ADQ38404	Adq38404 Human SNP
46	17.4	87.0	5626	13	ADQ38405	Adq38405 Human SNP
47	17.4	87.0	45588	14	AEb32417	Aeb32417 Human gen
48	17.4	87.0	59645	14	AEb32372	Aeb32372 Human gen
49	17.4	87.0	61588	11	ACN44894	Acn44894 Human gen
50	16.4	82.0	1668	2	AAV42012	Aav42012 Glycero
51	16.4	82.0	1668	2	AAV35733	Aav35733 Klebsiell
52	16.4	82.0	1668	3	AAZ38988	Aaz38988 Klebsiell
53	16.4	82.0	1671	11	ACH96392	Ach96392 Klebsiell
54	16.4	82.0	1710	12	ADF22587	Adp22587 Sea-squir
55	16.4	82.0	2693	10	ADe36123	Ades36123 Klebsiell
56	16.4	82.0	2693	10	ADe36127	Ades36127 Klebsiell
57	16.4	82.0	2693	10	ADe36245	Ades36245 Klebsiell
58	16.4	82.0	2693	10	ADe36147	Ades36147 Klebsiell
59	16.4	82.0	2693	10	ADe36206	Ades36206 Klebsiell
60	16.4	82.0	2693	10	ADe36236	Ades36236 Klebsiell
61	16.4	82.0	2693	10	ADe36189	Ades36189 Klebsiell
62	16.4	82.0	2693	10	ADe36127	Ades36127 Klebsiell
63	16.4	82.0	2693	10	ADe36173	Ades36173 Klebsiell
64	16.4	82.0	2693	10	ADe36185	Ades36185 Klebsiell
65	16.4	82.0	2693	10	ADe36200	Ades36200 Klebsiell
66	16.4	82.0	2693	10	ADe36119	Ades36119 Klebsiell
67	16.4	82.0	2693	10	ADe36159	Ades36159 Klebsiell
68	16.4	82.0	2693	10	ADe36139	Ades36139 Klebsiell
69	16.4	82.0	2693	10	ADe36193	Ades36193 Klebsiell
70	16.4	82.0	2693	10	ADe36224	Ades36224 Klebsiell
71	16.4	82.0	2693	10	ADe36135	Ades36135 Klebsiell
72	16.4	82.0	2693	10	ADe36151	Ades36151 Klebsiell
73	16.4	82.0	2693	10	ADe36169	Ades36169 Klebsiell
74	16.4	82.0	2693	10	ADe36209	Ades36209 Klebsiell
75	16.4	82.0	2693	10	ADe36215	Ades36215 Klebsiell
76	16.4	82.0	2693	10	ADe36218	Ades36218 Klebsiell
77	16.4	82.0	2693	10	ADe36242	Ades36242 Klebsiell
78	16.4	82.0	2693	10	ADe36181	Ades36181 Klebsiell
79	16.4	82.0	2693	10	ADe36227	Ades36227 Klebsiell
80	16.4	82.0	2693	10	ADe36230	Ades36230 Klebsiell
81	16.4	82.0	2693	10	ADe36131	Ades36131 Klebsiell
82	16.4	82.0	2693	10	ADe36177	Ades36177 Klebsiell
83	16.4	82.0	2693	10	ADe36221	Ades36221 Klebsiell
84	16.4	82.0	2693	10	ADe36239	Ades36239 Klebsiell
85	16.4	82.0	2693	10	ADe36162	Ades36162 Klebsiell
86	16.4	82.0	2693	10	ADe36165	Ades36165 Klebsiell
87	16.4	82.0	2693	10	ADe36212	Ades36212 Klebsiell
88	16.4	82.0	2693	10	ADe36233	Ades36233 Klebsiell
89	16.4	82.0	2693	10	ADe36248	Ades36248 Klebsiell
90	16.4	82.0	2693	10	ADe36203	Ades36203 Klebsiell
91	16.4	82.0	3117	2	AAQ86525	Aaq86525 Laccase g
92	16.4	82.0	4084	11	ACN44893	Acn44893 Mouse mRN

93	16.4	82.0	4529	2	AAV35771	AAV35771 Klebsiell	c 166	15.4	77.0	32147	8	AAD53860	Aad53860 Human chr
94	16.4	82.0	5268	5	AAf82085	Aaf82085 K. pneumo	c 167	15.4	77.0	37769	10	ADb74274	Adb74274 Mycobacte
95	16.4	82.0	7023	14	ADZ03869	Adz03869 Cloning v	c 168	15.4	77.0	91749	11	ACN44214	Acn44214 Human gen
96	16.4	82.0	12144	3	AAZ38971	Aaz38971 PHK28-26	c 169	15.4	77.0	254481	12	ADQ97135	Adq97135 Mouse can
97	16.4	82.0	12145	2	AAZ38833	Aaz38833 PHK28-26	c 170	15.2	76.0	104	8	ABZ09835	Abz09835 Human oli
98	16.4	82.0	12145	2	AAV42022	Aav42022 Plasmid p	c 171	15.2	76.0	104	10	ABZ79288	Abz79288 Tumour su
99	16.4	82.0	12145	2	AAV35743	Aav35743 Klebsiell	c 172	15.2	76.0	264	10	ADC92485	Adc92485 E. faeciu
100	16.4	82.0	12145	4	AAf81961	Aaf81961 Klebsiell	c 173	15.2	76.0	267	13	ADC92485	Adc92485 E. faeciu
101	16.4	82.0	12145	4	AAf76941	Aaf76941 Klebsiell	c 174	15.2	76.0	267	13	ADS95133	Ads95133 Human the
102	16.4	82.0	12145	10	ADb36084	Adb36084 Klebsiell	c 175	15.2	76.0	267	13	ADS94971	Ads94971 Human the
103	16.4	82.0	12145	10	ADG30861	Adg30861 Glucose i	c 176	15.2	76.0	267	13	ADb7990	Adb7990 Biologica
104	16.4	82.0	13402	10	ADG20887	Adg20887 Glucose i	c 177	15.2	76.0	267	13	ADb7990	Adb7990 Biologica
105	16.4	82.0	13402	12	ADN59093	Adn59093 Novel Esc	c 178	15.2	76.0	269	13	ACF85365	Acf85365 Human SIR
106	16.4	82.0	13470	10	ADG30843	Adg30843 Glucose i	c 179	15.2	76.0	303	6	ABQ91814	Abq91814 M. capsul
107	16.4	82.0	13543	8	ADG36836	Adg36836 Plasmid p	c 180	15.2	76.0	357	2	AAf7505	Aaf7505 Partial ER
108	16.4	82.0	13543	10	ADG20885	Adg20885 Glucose i	c 181	15.2	76.0	364	6	ABN2868	Abn2868 Human QRP
109	16.4	82.0	13543	10	ADG20886	Adg20886 Glucose i	c 182	15.2	76.0	378	4	AAK88211	Aak88211 Human dig
110	16.4	82.0	13543	12	ADG50982	Adg50982 Novel Esc	c 183	15.2	76.0	409	4	AAI14299	Aai14299 Probe #42
111	16.4	82.0	13543	12	ADN59091	Adn59091 Novel Esc	c 184	15.2	76.0	409	4	ABA56026	Aba56026 Human foe
112	16.4	82.0	13611	10	ADG20891	Adg20891 Glucose i	c 185	15.2	76.0	409	4	AAI35675	Aai35675 Probe #43
113	16.4	82.0	13669	10	ADG20884	Adg20884 Glucose i	c 186	15.2	76.0	409	4	ABA5530	Aba5530 Human bre
114	16.4	82.0	13669	12	ADMT74324	Adm74324 Plasmid p	c 187	15.2	76.0	409	4	ABA25687	Aba25687 Probe #41
115	16.4	82.0	13669	12	ADMT74324	Adm74324 Plasmid p	c 188	15.2	76.0	409	4	AAK04230	Aak04230 Human bon
116	16.4	82.0	13669	12	ADN59092	Adn59092 Novel Esc	c 189	15.2	76.0	409	4	ABs29354	AbS29354 Human liv
117	16.4	82.0	13669	11	ACN44892	Acn44892 Mouse gen	c 190	15.2	76.0	409	5	AAI04133	Aai04133 Probe #41
118	16.4	82.0	130312	14	ABEB39168	AbE39168 L. pneumo	c 191	15.2	76.0	421	8	ABs04271	AbS04271 Human gen
119	16.4	82.0	143354	14	ABEB42740	AbE42740 L. pneumo	c 192	15.2	76.0	421	8	ABs04271	AbS04271 Human gen
120	15.8	79.0	256	7	ADb65360	Adb65360 Corn seed	c 193	15.2	76.0	421	8	ABs04271	AbS04271 Human gen
121	15.8	79.0	372	2	AAQ03658	Aaq03658 C38a169eq	c 194	15.2	76.0	421	8	ABs04271	AbS04271 Human gen
122	15.8	79.0	470	9	ACH14719	Ach14719 Human adu	c 195	15.2	76.0	489	5	AAH83561	Aah83561 DNA encod
123	15.8	79.0	647	4	ABL15649	Ab115649 Drosophil	c 196	15.2	76.0	489	5	AAH83561	Aah83561 DNA encod
124	15.8	79.0	1149	13	ADb58521	Adb58521 Bacterial	c 197	15.2	76.0	514	2	AAAT35278	Aat35278 Chemokine
125	15.8	79.0	1383	8	ACA53451	AcA53451 Prokaryot	c 198	15.2	76.0	547	12	ACH72369	Ach72369 Human gen
126	15.8	79.0	1478	10	ADb60489	Adb60489 Secreted	c 199	15.2	76.0	571	4	AAH51174	Aah51174 Salmonell
127	15.8	79.0	1478	13	ADb03726	Adb03726 Plant ful	c 200	15.2	76.0	600	10	ADC93400	Adc93400 E. faeciu
128	15.8	79.0	2084	2	AAV34286	Aav34286 Human sec	c 201	15.2	76.0	686	13	AAFI3380	Aafi3380 Aspergill
129	15.8	79.0	2084	6	ADb44636	Adb44636 Human sec	c 202	15.2	76.0	686	13	ADU57421	Adu57421 Aspergill
130	15.8	79.0	2084	6	ADb44854	Adb44854 Human sec	c 203	15.2	76.0	686	14	ADZ95424	Adz95424 Aspergill
131	15.8	79.0	2084	8	ABX96966	Abx96966 Human sec	c 204	15.2	76.0	720	4	AAAL14312	Aal14312 Human bre
132	15.8	79.0	2084	12	ADG89738	Adg89738 Human cdn	c 205	15.2	76.0	720	4	AAAL14312	Aal14312 Human bre
133	15.8	79.0	2098	4	AAK68437	Aak68437 Human imm	c 206	15.2	76.0	936	5	AAH78812	Aah78812 DNA encod
134	15.8	79.0	2396	4	ABL30488	Ab130488 Drosophil	c 207	15.2	76.0	936	5	AAH78812	Aah78812 DNA encod
135	15.8	79.0	2546	2	AAQ03661	Aaq03661 Maize C3	c 208	15.2	76.0	960	8	ACA44415	AcA44415 Prokaryot
136	15.8	79.0	2848	4	ABL15648	Ab115648 Drosophil	c 209	15.2	76.0	987	10	ADFO0038	Adf00038 Bacterial
137	15.8	79.0	2927	4	AAK68438	Aak68438 Human imm	c 210	15.2	76.0	1002	6	ABQ90354	Abq90354 M. capsul
138	15.8	79.0	3962	13	ADb06874	Adb06874 Full leng	c 211	15.2	76.0	1005	11	ABD02945	Abd02945 Pseudomon
139	15.8	79.0	4492	4	AAK94622	Aak94622 Human ful	c 212	15.2	76.0	1083	12	ADb02945	Abd02945 Pseudomon
140	15.8	79.0	4492	12	ADL31554	Adl31554 Full leng	c 213	15.2	76.0	1083	12	ADb02945	Abd02945 Pseudomon
141	15.8	79.0	5946	4	ABL11784	Ab111784 Drosophil	c 214	15.2	76.0	1095	6	ABK14656	Abk14656 Rice acet
142	15.8	79.0	6450	11	ADN95826	Adn95826 Human BEC	c 215	15.2	76.0	1140	11	ACN84362	Acn84362 Breast ca
143	15.8	79.0	6450	12	ADJ74812	Adj74812 Marker ge	c 216	15.2	76.0	1158	12	ADH45345	Adh45345 Human enz
144	15.8	79.0	6450	13	ACN37266	Acn37266 Tumour-as	c 217	15.2	76.0	1208	4	AAH91386	Aah91386 Human zal
145	15.8	79.0	6450	14	ADX06878	Adx06878 Cyclin-de	c 218	15.2	76.0	1243	5	AAH84189	Aah84189 DNA encod
146	15.8	79.0	6450	14	ADY14979	Ady14979 DNA encod	c 219	15.2	76.0	1269	8	ABZ68880	Abz68880 Nucleotid
147	15.8	79.0	6796	4	ABL17763	Ab117763 Drosophil	c 220	15.2	76.0	1289	10	AAH27381	Aah27381 cDNA enco
148	15.8	79.0	36181	10	ADb74371	Adb74371 Mycobacte	c 221	15.2	76.0	1289	10	ADb93559	Adb93559 Human cdn
149	15.8	79.0	61313	4	AAH59545	Aah59545 Propionib	c 222	15.2	76.0	1314	8	ACA50887	AcA50887 Prokaryot
150	15.8	79.0	61313	8	ACF64474	Acf64474 Propionib	c 223	15.2	76.0	1314	8	ACA50887	AcA50887 Prokaryot
151	15.8	79.0	66681	13	ABD33333	Abd33333 Murine ca	c 224	15.2	76.0	1327	4	ABA09210	Aba09210 Human CCR
152	15.8	79.0	89047	4	AAf28547	Aaf28547 Genomic f	c 225	15.2	76.0	1376	11	ABD00428	Abd00428 Klebsiell
153	15.4	77.0	612	8	ACA39967	AcA39967 Prokaryot	c 226	15.2	76.0	1452	11	ABD00072	Abd00072 Klebsiell
154	15.4	77.0	618	11	ACL28654	Acl28654 Rice abio	c 227	15.2	76.0	1476	12	ADL12418	Adl12418 Human ste
155	15.4	77.0	753	12	ADL03618	Adl03618 DNA encod	c 228	15.2	76.0	1491	11	ABD11606	Abd11606 Pseudomon
156	15.4	77.0	939	4	ABL16849	Ab116849 Drosophil	c 229	15.2	76.0	1492	11	ADL13131	Adl13131 Human CDN
157	15.4	77.0	1368	8	ACA44045	AcA44045 Prokaryot	c 230	15.2	76.0	1492	11	ADL13131	Adl13131 Human CDN
158	15.4	77.0	1896	4	ABL29877	Ab129877 Drosophil	c 231	15.2	76.0	1542	12	ADP44056	Adp44056 Human CCR
159	15.4	77.0	2000	10	ACC61137	Acc61137 Gene sequ	c 232	15.2	76.0	1607	2	AAAT35277	Aat35277 Chemokine
160	15.4	77.0	2000	10	ADK63001	Adk63001 Disease t	c 233	15.2	76.0	1609	10	ADC30289	Adc30289 Human nov
161	15.4	77.0	3039	4	ABL16848	Ab116848 Drosophil	c 234	15.2	76.0	1630	4	AAI59615	Aai59615 Human pol
162	15.4	77.0	3110	4	ABL18426	Ab118426 Drosophil	c 235	15.2	76.0	1659	11	ABD02962	Abd02962 Pseudomon
163	15.4	77.0	3532	4	ABL29880	Ab129880 Drosophil	c 236	15.2	76.0	1662	4	AAI57829	Aai57829 Human pol
164	15.4	77.0	4042	4	ABL29876	Ab129876 Drosophil	c 237	15.2	76.0	1677	3	AAA58872	Aaa58872 DNA encod
165	15.4	77.0	24053	4	AAAD12308	Aad12308 Toxoplas	c 238	15.2	76.0	1677	8	ABZ42636	Abz42636 Human C-C

C 239	15.2	76.0	1677	10	ADG32905	Adg32905 Human DNA	312	15.2	76.0	79122	3	AAF22294	Aaf22294 BAC conta
C 240	15.2	76.0	1677	10	ACA56519	AcA56519 Human sig	313	15.2	76.0	94752	10	ADF11646	Adf11646 Human chr
C 241	15.2	76.0	1677	11	ADI31607	Adi31607 Human cDN	C 314	15.2	76.0	110000	14	AEA61120_4	Continuation (5 of
C 242	15.2	76.0	1677	12	ADI56315	Adi56315 Human pol	C 315	15.2	76.0	110000	14	AEA61102_2	Continuation (3 of
C 243	15.2	76.0	1677	13	ADP56307	Adp56307 Human PRO	C 316	15.2	76.0	130320	10	ADF11613	Adf11613 Human scl
C 244	15.2	76.0	1677	13	ADS83674	AdS83674 Human lym	C 317	15.2	76.0	157090	12	ADO47194	Ado47194 DNA sequ
C 245	15.2	76.0	1677	14	ADN83084	AdN83084 DNA encod	318	15.2	76.0	172570	6	ABQ88207	Abq88207 Human ost
246	15.2	76.0	1683	10	ADF90384	Adf90384 Human hep	319	15.2	76.0	188053	13	ABD32778	Abd32778 Mouse can
247	15.2	76.0	1683	10	ADFN0860	AdfN0860 Human hep	320	15.2	76.0	193672	9	ADL13570	Adl13570 Osteoarth
248	15.2	76.0	1685	11	ACN91697	AcN91697 Breast ca	321	15.2	76.0	226475	9	ADL58279	AdL58279 Human tum
C 249	15.2	76.0	1692	11	ABD11240	Abd11240 Pseudomon	322	15.2	76.0	304326	13	ADS15253	AdS15253 Rat senso
250	15.2	76.0	1791	10	ADJ81516	Adj81516 Plant ret	323	15	75.0	1440	13	ADT46324	Adt46324 Bacterial
251	15.2	76.0	1875	12	ADQ32962	Adq32962 Human sof	C 324	15	75.0	1865	14	AEA89022	Aea89022 Chicken D
252	15.2	76.0	1916	14	ADY79260	Ady79260 DNA encod	C 325	15	75.0	2592	9	ACC59412	Acc59412 P putida
253	15.2	76.0	1925	14	ADY79258	Ady79258 DNA encod	326	15	75.0	110000	2	AAV30458_2	Continuation (3 of
254	15.2	76.0	1936	14	ADY79266	Ady79266 DNA encod	327	15	75.0	110000	2	AAV30459_2	Continuation (3 of
255	15.2	76.0	1940	14	ADY79256	Ady79256 DNA encod	328	14.8	74.0	289	6	ABN77375	Abn77375 Human ORF
C 256	15.2	76.0	1956	4	AAI58192	Aai58192 Human pol	C 329	14.8	74.0	303	6	ABN19347	Abn19347 Human ORF
C 257	15.2	76.0	1956	5	ADQ98398	Adq98398 DNA encod	C 330	14.8	74.0	324	8	ABZ55207	Abz55207 Aspergill
C 258	15.2	76.0	1956	9	ADB48158	AdB48158 Novel hum	C 331	14.8	74.0	326	9	ACL14693	ACL14693 DNA clone
259	15.2	76.0	1956	14	ADY79264	Ady79264 DNA encod	332	14.8	74.0	342	14	ADM13723	Adm13723 Brucella
260	15.2	76.0	1957	13	ADR65967	Adr65967 Human pro	C 333	14.8	74.0	345	12	ADP57764	Adp57764 Soybean c
C 261	15.2	76.0	1983	13	ADT19676	Adt19676 Plant cDN	334	14.8	74.0	442	13	ACF89831	Acf89831 Human SIR
262	15.2	76.0	1985	6	ABK14670	Abk14670 cDNA enco	C 335	14.8	74.0	468	11	ABD12735	Abd12735 Pseudomon
263	15.2	76.0	1986	6	ABK14667	Abk14667 Rice acet	336	14.8	74.0	488	9	ACH44529	Ach44529 Human foe
264	15.2	76.0	1986	6	ABK14669	Abk14669 cDNA enco	337	14.8	74.0	493	13	ADX36367	Adx36367 Plant ful
265	15.2	76.0	1986	14	ADY79262	Ady79262 DNA encod	C 338	14.8	74.0	507	4	AAS54045	Aas54045 Pseudomon
C 266	15.2	76.0	2107	4	ABL06467	AbL06467 Drosophil	C 339	14.8	74.0	507	8	ACA42110	AcA42110 Prokaryot
C 267	15.2	76.0	2167	3	AAZ35644	Aaz35644 Human tum	340	14.8	74.0	507	8	ACA53545	AcA53545 Prokaryot
C 268	15.2	76.0	2493	14	ADV15211	Adv15211 Human vas	C 341	14.8	74.0	507	12	ADO25536	Ado25536 P.aerugin
C 269	15.2	76.0	3016	5	ADL46006	Adl46006 Human ova	C 342	14.8	74.0	507	12	ADO25538	Ado25538 P.aerugin
C 270	15.2	76.0	3159	5	AAZ79614	Aaz79614 DNA encod	C 343	14.8	74.0	516	11	ABD12754	Abd12754 Pseudomon
C 271	15.2	76.0	3293	10	ADA53393	Ada53393 Human cod	C 344	14.8	74.0	567	9	ACL14694	ACL14694 DNA clone
C 272	15.2	76.0	3452	5	AAZ57556	Aaz57556 DNA encod	345	14.8	74.0	594	10	ADC08757	Adc08757 Wheat DNA
C 273	15.2	76.0	3457	8	ABX34559	Abx34559 Human mdd	C 346	14.8	74.0	609	9	ACL14692	ACL14692 DNA clone
C 274	15.2	76.0	3483	5	AAZ67947	Aaz67947 DNA encod	C 347	14.8	74.0	656	9	ACL14691	ACL14691 DNA clone
C 275	15.2	76.0	3547	12	ADQ25412	Adq25412 Human sof	348	14.8	74.0	771	13	ADS85645	AdS85645 Bacterial
C 276	15.2	76.0	3638	8	ABT117711	Abt117711 Aspergill	C 349	14.8	74.0	809	6	ABL90631	AbL90631 Human pol
C 277	15.2	76.0	3725	8	ABX34822	Abx34822 Human mdd	350	14.8	74.0	813	11	ACH97241	Ach97241 Klebsiell
C 278	15.2	76.0	3809	10	AAD60942	Aad60942 Human vas	351	14.8	74.0	822	14	ACL67861	ACL67861 M. xanthu
C 279	15.2	76.0	3809	14	ADV15209	Adv15209 Human vas	352	14.8	74.0	825	4	AAH04488	Aah04488 Human cDN
C 280	15.2	76.0	4187	8	ABX63185	Abx63185 Human cDN	C 353	14.8	74.0	831	8	ACA33137	AcA33137 Prokaryot
C 281	15.2	76.0	4338	6	AAZ57197	Aaz57197 Human sub	C 354	14.8	74.0	846	10	ADH83739	Adh83739 Enterococ
C 282	15.2	76.0	4338	6	AAZ24182	Aaz24182 Human sit	C 355	14.8	74.0	887	8	ABX10233	Abx10233 Human cDN
C 283	15.2	76.0	4338	10	ADG32883	Adg32883 Human DNA	C 356	14.8	74.0	887	10	ADG39789	Adg39789 Human cDN
C 284	15.2	76.0	4338	13	ADR25092	Adr25092 Breast ca	357	14.8	74.0	924	8	ACA43980	AcA43980 Prokaryot
C 285	15.2	76.0	4377	10	ADC32331	Adc32331 Human nov	C 358	14.8	74.0	1052	4	AAK65798	Aak65798 Human imm
C 286	15.2	76.0	4377	10	ADC32332	Adc32332 Human nov	C 359	14.8	74.0	1052	4	AAK64711	Aak64711 Human imm
C 287	15.2	76.0	4386	8	ABT19525	Abt19525 Aspergill	C 360	14.8	74.0	1086	13	ADT46219	Adt46219 Bacterial
288	15.2	76.0	4417	10	ADC30482	Adc30482 Human nov	361	14.8	74.0	1096	13	ADR26767	Adr26767 Breast ca
289	15.2	76.0	4427	10	ADF78174	Adf78174 Human ext	C 362	14.8	74.0	1107	11	ABD14732	Abd14732 Pseudomon
290	15.2	76.0	4450	10	ADC30481	Adc30481 Human nov	C 363	14.8	74.0	1179	11	ABD14589	Abd14589 Pseudomon
291	15.2	76.0	4475	10	ADD71168	Add71168 Human int	C 364	14.8	74.0	1210	14	ADY18679	Ady18679 DNA encod
292	15.2	76.0	4508	6	ABA94703	Aba94703 Human GTP	C 365	14.8	74.0	1215	13	ADS63107	AdS63107 Bacterial
C 293	15.2	76.0	4536	4	ABL06466	AbL06466 Drosophil	C 366	14.8	74.0	1253	8	ACC49501	Acc49501 Tumour-as
294	15.2	76.0	4760	4	AAZ27831	Aaz27831 DNA encod	C 367	14.8	74.0	1267	10	ADG39787	Adg39787 Human cDN
295	15.2	76.0	4760	4	AAZ73490	Aaz73490 Human imm	C 368	14.8	74.0	1268	8	ABX10232	Abx10232 Human cDN
296	15.2	76.0	4736	4	AAK73205	Aak73205 Human imm	C 369	14.8	74.0	1276	6	ABX10233	Abx10233 Human cDN
297	15.2	76.0	4736	10	ADB94634	AdB94634 Novel hum	C 370	14.8	74.0	1282	6	ABQ79945	Abq79945 Human NOV
298	15.2	76.0	4785	11	ADP65700	Adp65700 Human cen	371	14.8	74.0	1305	11	ACH96374	Ach96374 Klebsiell
C 299	15.2	76.0	5794	6	ABS76450	Abs76450 cDNA enco	372	14.8	74.0	1308	11	ABD14010	Abd14010 Pseudomon
C 300	15.2	76.0	5830	5	AAZ79960	Aaz79960 DNA encod	373	14.8	74.0	1320	14	ACL66534	ACL66534 M. xanthu
C 301	15.2	76.0	7903	5	AAZ77690	Aaz77690 DNA encod	C 374	14.8	74.0	1347	13	ADT46042	Adt46042 Bacterial
302	15.2	76.0	13320	10	ADJ81502	Adj81502 Plant ret	375	14.8	74.0	1353	13	ADT46042	Adt46042 Bacterial
303	15.2	76.0	13868	10	ADJ81501	Adj81501 Plant ret	C 376	14.8	74.0	1370	13	ADT46042	Adt46042 Bacterial
304	15.2	76.0	13894	10	ADJ81499	Adj81499 Plant ret	C 377	14.8	74.0	1398	6	AAZ94960	Aaz94960 Human DNA
305	15.2	76.0	13938	10	ADJ81503	Adj81503 Plant ret	C 378	14.8	74.0	1407	13	ADT91276	Adt91276 Entamoeba
306	15.2	76.0	13966	10	ADJ81500	Adj81500 Plant ret	379	14.8	74.0	1416	6	ABT05619	Abt05619 Mycobacte
307	15.2	76.0	14005	10	ADJ81504	Adj81504 Plant ret	380	14.8	74.0	1416	11	ABD04021	Abd04021 Pseudomon
308	15.2	76.0	14015	10	ADJ81505	Adj81505 Plant ret	C 381	14.8	74.0	1484	14	ACL63901	ACL63901 M. xanthu
C 309	15.2	76.0	21501	10	ACF79823	Acf79823 Human SOS	C 382	14.8	74.0	1536	8	ACA44310	AcA44310 Prokaryot
310	15.2	76.0	46604	11	ACN44404	Acn44404 Mouse gen	383	14.8	74.0	1539	12	ADJ35157	Adj35157 DNA encod
311	15.2	76.0	64415	3	AAF22279	Aaf22279 BAC conta	384	14.8	74.0	1539	13	ADT42038	Adt42038 Bacterial

385	14.8	74.0	1554	4	AAH17341	Aah17341 Human CDN	458	14.4	72.0	695	3	AAF12444	Aaf12444 Aspergill
c 386	14.8	74.0	1584	11	ABD03684	Abd03684 Pseudomon	459	14.4	72.0	695	13	ADU56485	Adu56485 Aspergill
c 387	14.8	74.0	1681	12	ADI67052	Adi67052 Novel Lac	460	14.4	72.0	695	14	ADZ94488	Adz94488 Aspergill
c 388	14.8	74.0	1919	12	ADM94375	Adm94375 Wheat ABC	461	14.4	72.0	773	5	AAS75078	Aas75078 DNA encod
c 389	14.8	74.0	1994	3	AAA38930	Aaa38930 Castor be	462	14.4	72.0	801	11	ACH97570	Ach97570 Klebsiell
c 390	14.8	74.0	1994	12	ADM98946	Adm98946 Diterpene	c 463	14.4	72.0	819	8	ACA35839	Aca35839 Prokaryot
c 391	14.8	74.0	2000	8	ADA72573	Ada72573 Rice gene	c 464	14.4	72.0	822	4	AAS53912	Aas53912 Klebsiell
c 392	14.8	74.0	2000	11	ACL37539	Acl37539 Rice stre	c 465	14.4	72.0	873	11	ACH97739	Ach97739 Klebsiell
c 393	14.8	74.0	2103	13	ADT45110	Adt45110 Bacterial	466	14.4	72.0	912	12	ADT44188	Adt44188 Bacterial
c 394	14.8	74.0	2130	5	AAS86825	Aas86825 DNA encod	467	14.4	72.0	960	12	ADL17021	Adl17021 Mycobacte
c 395	14.8	74.0	2244	14	ACL72546	Acl72546 M. xanthu	468	14.4	72.0	960	12	ADL17034	Adl17034 Mycobacte
c 396	14.8	74.0	2274	11	ACL26935	Acl26935 Rice abio	469	14.4	72.0	1122	11	ABD04168	Abd04168 Pseudomon
c 397	14.8	74.0	2404	13	ADS59470	Ads59470 Bacterial	470	14.4	72.0	1269	14	ACL67627	Acl67627 M. xanthu
c 398	14.8	74.0	2440	13	ADS62645	Ads62645 Bacterial	471	14.4	72.0	1296	13	ADS57955	Ads57955 Bacterial
c 399	14.8	74.0	2440	13	ADS62343	Ads62343 Bacterial	472	14.4	72.0	1442	4	ABL05895	Ab105895 Drosophil
c 400	14.8	74.0	2693	10	ADE36143	Ade36143 Klebsiell	c 473	14.4	72.0	1458	5	AAH81307	Aah81307 Escherich
c 401	14.8	74.0	2693	10	ADE36155	Ade36155 Klebsiell	474	14.4	72.0	1473	4	AAF60957	Aaf60957 P. putida
c 402	14.8	74.0	2775	13	ADR08189	Adr08189 Full leng	475	14.4	72.0	1473	4	AAF60957	Aaf60957 P. putida
c 403	14.8	74.0	2874	11	ADJ11615	Adj11615 Rice DNA	476	14.4	72.0	1611	13	ADS56722	Ads56722 Bacterial
c 404	14.8	74.0	3174	13	ADR08044	Adr08044 Full leng	477	14.4	72.0	1623	12	ADO29938	Ado29938 Human GPC
c 405	14.8	74.0	3189	8	ACA5362	Aca5362 Prokaryot	478	14.4	72.0	1686	13	ADS49518	Ads49518 Bacterial
c 406	14.8	74.0	3296	12	ADQ23734	Adq23734 Human sof	479	14.4	72.0	1728	8	ACA24950	Aca24950 Prokaryot
c 407	14.8	74.0	3808	2	AAV04634	Aav04634 Porcine p	480	14.4	72.0	1759	13	ADX60543	Adx60543 Plant ful
c 408	14.8	74.0	3808	2	AAV74100	Aav74100 Porcine G	481	14.4	72.0	1810	6	ABQ90237	Abq90237 M. capsul
c 409	14.8	74.0	3808	3	AAZ86813	Aaz86813 Pig p120	482	14.4	72.0	1862	13	ADX63201	Adx63201 Plant ful
c 410	14.8	74.0	4064	12	ADQ64476	Adq64476 Novel hum	483	14.4	72.0	1980	8	ACA36252	Aca36252 Prokaryot
c 411	14.8	74.0	4546	4	ABL09809	Ab109809 Drosophil	484	14.4	72.0	1983	11	ACH99500	Ach99500 Klebsiell
c 412	14.8	74.0	5118	4	ADL12309	Adl12309 Toxoplas	c 485	14.4	72.0	2054	8	ABZ42831	Abz42831 Human G P
c 413	14.8	74.0	5372	10	ADG39801	Adg39801 Human CDN	c 486	14.4	72.0	2054	14	ADZ75815	Adz75815 DNA encod
c 414	14.8	74.0	5974	10	ADF74226	Adf74226 Human nov	c 487	14.4	72.0	2077	3	AAD00241	Aad00241 Human neu
c 415	14.8	74.0	6565	4	AL030341	Al030341 Human rep	c 488	14.4	72.0	2337	10	ADP70566	Adp70566 Orphan re
c 416	14.8	74.0	6565	4	AL030342	Al030342 Human rep	c 489	14.4	72.0	2463	14	ADY72710	Ady72710 High amyl
c 417	14.8	74.0	6565	4	ABL97378	Ab197378 Human tes	c 490	14.4	72.0	2503	10	ADC07803	Adc07803 Rice DNA
c 418	14.8	74.0	6565	4	ABL97377	Ab197377 Human tes	c 491	14.4	72.0	2733	2	AAQ54674	Aaq54674 Rice star
c 419	14.8	74.0	8298	4	ABL20832	Ab120832 Drosophil	c 492	14.4	72.0	2733	2	AAQ62135	Aaq62135 Rice star
c 420	14.8	74.0	8673	4	ABL20834	Ab120834 Drosophil	c 493	14.4	72.0	2739	14	ADZ80618	Adz80618 cDNA sequ
c 421	14.8	74.0	8885	14	AEA49070	Aea49070 L. rhamno	c 494	14.4	72.0	3000	2	AAQ54675	Aaq54675 5' UTR an
c 422	14.8	74.0	12319	4	ABL17720	Ab117720 Drosophil	c 495	14.4	72.0	3000	2	AAQ62136	Aaq62136 Rice star
c 423	14.8	74.0	12319	4	ABL20830	Ab120830 Drosophil	c 496	14.4	72.0	3051	13	ADT45415	Adt45415 Bacterial
c 424	14.8	74.0	12849	14	ACL64500	Acl64500 M. xanthu	c 497	14.4	72.0	3210	4	ABL12861	Ab112861 Drosophil
c 425	14.8	74.0	13574	2	AAK13051	Aax13051 Enterococ	c 498	14.4	72.0	3255	8	ACA35114	Aca35114 Prokaryot
c 426	14.8	74.0	13574	6	ABS98846	Ab98846 Enterococ	c 499	14.4	72.0	3452	10	ADD24902	Add24902 DNA encod
c 427	14.8	74.0	24221	4	ABL09808	Ab109808 Drosophil	c 500	14.4	72.0	3453	3	AAD00242	Aad00242 Genomic D
c 428	14.8	74.0	25733	14	ACL64752	Acl64752 M. xanthu							
c 429	14.8	74.0	34125	6	ABS69903	Ab69903 Human ade							
c 430	14.8	74.0	36185	14	ABE44565	Ab44565 Sleep dis							
c 431	14.8	74.0	36534	11	ADL82795	Adl82795 Human sem							
c 432	14.8	74.0	37688	14	ABE35724_5	Continuation (6 of							
c 433	14.8	74.0	47670	4	ABL16824	Ab116824 Drosophil							
c 434	14.8	74.0	50368	4	ABL16768	Ab116768 Drosophil							
c 435	14.8	74.0	110000	4	AAI96882_16	Continuation (17 o							
c 436	14.8	74.0	110000	4	AAI96882_25	Continuation (17 o							
c 437	14.8	74.0	110000	4	AAI96683_16	Continuation (17 o							
c 438	14.8	74.0	110000	4	AAI96683_25	Continuation (26 o							
c 439	14.8	74.0	110000	12	ADO79173_2	Continuation (3 of							
c 440	14.8	74.0	110000	14	ADZ12821_3	Continuation (4 of							
c 441	14.8	74.0	110000	14	ABE35724_4	Continuation (5 of							
c 442	14.8	74.0	110000	14	ABE39175_01	Continuation (2 of							
c 443	14.8	74.0	110000	14	ABE42401_01	Continuation (2 of							
c 444	14.8	74.0	160198	10	ADL13962	Adl13962 Osteoarth							
c 445	14.8	74.0	254868	14	ADZ13236	Adz13236 Murine ca							
c 446	14.8	74.0	349980	6	ABQ81842	Abq81842 Bifidobac							
c 447	14.4	72.0	27	12	ADY72706	Ady72706 High amyl							
c 448	14.4	72.0	378	12	ADL17036	Adl17036 Mycobacte							
c 449	14.4	72.0	379	12	ADL17024	Adl17024 Mycobacte							
c 450	14.4	72.0	408	8	ACA54018	Aca54018 Prokaryot							
c 451	14.4	72.0	448	4	AAI93021	Aai93021 Human pol							
c 452	14.4	72.0	535	8	ABZ19269	Abz19269 Group III							
c 453	14.4	72.0	559	11	ACL131317	Acl131317 Rice abio							
c 454	14.4	72.0	612	4	ABK43101	Abk43101 Genomic s							
c 455	14.4	72.0	612	9	ADB61257	Adb61257 Connectiv							
c 456	14.4	72.0	616	11	ACL132889	Acl132889 Rice abio							
c 457	14.4	72.0	672	13	ADQ78485	Adq78485 Novel can							

ALIGNMENTS

RESULT 1

ADFS0205

ID ADF50205 standard; DNA; 1524 BP.

XX

AC ADF50205;

XX

DT 12-FEB-2004 (first entry)

DE Wheat Teal AHAS ALS1 ORF, SEQ ID 5.

XX

KW Wheat; plant; herbicide resistance; imidazolinone; IMI; mutant;

XX

KW acetohydroxyacid synthase; AHAS; weed control; ds.

XX

XX Triticum aestivum.

OS

XX WO2003014357-A1.

PN

XX 20-FEB-2003.

PD

XX 10-JUL-2002; 2002WO-CA001051.

PF

XX 09-AUG-2001; 2001US-0311282P.

PR

XX (UYSA-) UNIV SASKATCHEWAN.

XX

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2470.77 Seconds
(without alignments)
378.725 Million cell updates/sec

Title: US-10-805-973-5

Perfect score: 20
Sequence: 1 gggaggcattgccact 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:*

1: gb_est1.*

2: gb_est2.*

3: gb_est3.*

4: gb_hic.*

5: gb_est4.*

6: gb_est5.*

7: gb_est6.*

8: gb_est7.*

9: gb_ges1.*

10: gb_ges2.*

11: gb_ges3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	336	2	BE216970
2	20	100.0	542	2	BE402272
3	20	100.0	542	5	BQ607881
4	20	100.0	642	3	BQ290340
5	20	100.0	680	6	CD923248
6	20	100.0	697	1	AW447953
7	20	100.0	697	5	BQ605618
8	20	100.0	737	5	BQ099465
9	20	100.0	1121	7	CK166070
10	20	100.0	1143	7	CK166817
11	20	100.0	1147	7	CK166638
12	20	100.0	1149	7	CK167517
13	20	100.0	1160	7	CK167307
14	20	100.0	1198	7	CK168204
15	19	95.0	544	2	BQ637311
16	19	95.0	657	5	BQ839048
17	18.4	92.0	382	1	AL815430
18	18.4	92.0	437	2	BQ262730
19	18.4	92.0	479	1	AL818714
20	18.4	92.0	556	9	BZ415292
21	18.4	92.0	595	10	CW412267
22	18.4	92.0	619	10	CG266503

23	18.4	92.0	635	7	CV064973
24	18.4	92.0	637	9	BZ419405
25	18.4	92.0	651	9	CC835629
26	18.4	92.0	652	2	BB616609
27	18.4	92.0	693	1	AB046243
28	18.4	92.0	752	10	CW430157
29	18.4	92.0	760	9	CC688500
30	18.4	92.0	772	10	CW417253
31	18.4	92.0	809	10	CG139795
32	18.4	92.0	818	9	CC688507
33	18.4	92.0	820	10	CZ694312
34	18.4	92.0	860	8	CV763823
35	18.4	92.0	877	7	CK164419
36	18.4	92.0	904	10	CG178338
37	18.4	92.0	950	5	BY714427
38	18.4	92.0	1149	7	CK167615
39	18.4	92.0	1216	4	AK014909
40	17.4	87.0	187	10	CW484598
41	17.4	87.0	394	5	CA002221
42	17.4	87.0	448	5	BU974149
43	17.4	87.0	452	2	BG158251
44	17.4	87.0	458	1	AU090161
45	17.4	87.0	463	1	AU090120
46	17.4	87.0	480	1	AJ466425
47	17.4	87.0	482	2	BE194893
48	17.4	87.0	547	2	BF723624
49	17.4	87.0	555	6	CA116914
50	17.4	87.0	564	10	CL939884
51	17.4	87.0	580	2	BF258592
52	17.4	87.0	583	1	AV932575
53	17.4	87.0	590	3	BI946606
54	17.4	87.0	622	10	CG711115
55	17.4	87.0	625	1	AV933951
56	17.4	87.0	630	6	CA240473
57	17.4	87.0	639	10	CW579325
58	17.4	87.0	648	6	CB883149
59	17.4	87.0	649	6	CA071692
60	17.4	87.0	659	6	CA114581
61	17.4	87.0	706	6	CA095528
62	17.4	87.0	708	2	BG367501
63	17.4	87.0	779	10	CW551510
64	17.4	87.0	830	6	CA077116
65	17.4	87.0	864	9	BZ737942
66	17.4	87.0	880	6	CD171634
67	17.4	87.0	893	10	CG293507
68	17.4	87.0	1056	6	CA278959
69	17.4	87.0	3309	10	AY402375
70	17.4	87.0	3309	10	AY402376
71	16.8	84.0	491	2	BF276726
72	16.8	84.0	529	9	AQ358760
73	16.8	84.0	548	1	AI814408
74	16.8	84.0	655	10	CL810782
75	16.8	84.0	683	8	DR919474
76	16.8	84.0	701	10	CL761211
77	16.8	84.0	719	10	AG008268
78	16.8	84.0	736	10	CL713306
79	16.8	84.0	736	10	CL858016
80	16.8	84.0	850	9	CC913185
81	16.8	84.0	864	10	CL800384
82	16.8	84.0	875	8	DR919475
83	16.8	84.0	959	10	CG178340
84	16.8	84.0	1012	3	BM563664
85	16.8	84.0	159	2	BI124704
86	16.4	82.0	272	2	BE860131
87	16.4	82.0	286	6	CB375675
88	16.4	82.0	311	2	BE933629
89	16.4	82.0	311	2	BE933862
90	16.4	82.0	356	5	BY169378
91	16.4	82.0	396	10	CZ745821
92	16.4	82.0	417	10	CG663373
93	16.4	82.0	447	10	CW216596
94	16.4	82.0	460	2	BF787669
95	16.4	82.0	495	2	BB867229

CV064973	WNE117f3
BZ419405	1f53806.b
CC835629	ZMMBB018
BB616609	BB616609
AB046243	AB046243
CW430157	fsb5001f1
CC688500	OGWIK577H
CW417253	fsb5001f1
CG139795	PUIJF47TB
CC688507	OGWIK577V
CZ694312	OC_Ba000
CV763823	FGAS05820
CK164419	FGAS04832
CG178338	PUFLL37TB
BY714427	BY714427
CK167615	FGAS05201
AK014909	MUS muscu
CW484598	fsb5001f2
CA002221	HS06N21r
BU974149	HB27A17r
BG158251	EM1_10_D0
AU090161	AU090161
AU090120	AU090120
AJ466425	AJ466425
BE194893	HVSMH008
BF723624	EST00060
CA116914	SCAGLR102
CL939884	OA_ABA005
BF258592	HVSMHf001
AV932575	AV932575
BI946606	HVSMH1000
CG711115	1119020B0
AV933951	AV933951
CA240473	SCSBLF406
CW579325	OA_ABA010
CB883149	HQ01P18w
CA071692	SCBGM108
CA114581	SCRFBL105
CA095528	SCCCL507
BG367501	HVSMH1001
CW551510	OA_ABA007
CA077116	SCQGM104
BZ737942	OGECU807M
CD171634	AGENCOURT
CG293507	OGWFW38TH
CA278959	SCBFT309
AY402375	Homo sapi
AY402376	Pan trogl
BF276726	GA_Eb003
AQ358760	HS_5030_A
AI814408	wj72906^x
CL810782	OR_CBA002
DR919474	EST11101
CL761211	OR_BBA013
AG008268	Homo sapi
CL713306	OR_BBA003
CL858016	OR_CBA008
CC913185	t077b06ba
CL800384	OR_CBA001
DR919475	EST11101
CG178340	PUFLL37TD
BM563664	AGENCOURT
BI124704	IO49P66P
BE860131	UI-N-AK0-
CB375675	rw14a03.y
BE933629	QV4-HT089
BE933862	QV4-HT089
BY169378	BY169378
CZ745821	OC_BA009
CG663373	OST448487
CW216596	104^649_1
BF787669	602114310
BB867229	BB867229

96	16.4	82.0	499	6	CB278999	CB278999 ru39d10.Y	169	15.8	79.0	327	8	CX769605	CX769605 UI-D-GC1-
97	16.4	82.0	505	7	CK351103	CK351103 hggfha3D	170	15.8	79.0	328	8	D15163	D15163 RICC0189A.R
c 98	16.4	82.0	525	7	CK621318	CK621318 ml30d05.Y	171	15.8	79.0	341	7	CO265579	CO265579 EK131114.
99	16.4	82.0	536	2	BE366209	BE366209 Pll_31.Co	172	15.8	79.0	361	2	B1243085	B1243085 RE40036.5
c 100	16.4	82.0	546	10	CW239300	CW239300 104_697_1	173	15.8	79.0	361	9	B1356106	B1356106 RE42162.5
c 101	16.4	82.0	548	1	AJ647689	AJ647689	c 174	15.8	79.0	367	9	AQ119501	AQ119501 HS_2269.A
c 102	16.4	82.0	555	7	CV351399	CV351399 MR3-PN000	175	15.8	79.0	385	2	BG961589	BG961589 PM0-CT054
c 103	16.4	82.0	559	1	AW745084	AW745084 LG1_386.G	176	15.8	79.0	393	3	B1613508	B1613508 RH42670.5
c 104	16.4	82.0	583	9	AQ620109	AQ620109 HS_5188.A	177	15.8	79.0	396	2	BE662125	BE662125 b824d06.Y
c 105	16.4	82.0	611	7	CK621006	CK621006 ml19b01.Y	c 178	15.8	79.0	396	7	CV003950	CV003950 csa01-2ms
c 106	16.4	82.0	619	10	CW218655	CW218655 104_652_1	c 179	15.8	79.0	405	1	AA325064	AA325064 EST17992
c 107	16.4	82.0	627	1	AW106994	AW106994 um18c07.Y	c 180	15.8	79.0	405	8	DR705479	DR705479 Aen_05658
c 108	16.4	82.0	636	6	CF173603	CF173603 B0926C02-	c 181	15.8	79.0	413	10	AG976705	AG976705 DrGeophil
c 109	16.4	82.0	639	10	AY405008	AY405008 Mus muscu	c 182	15.8	79.0	417	5	BQ492543	BQ492543 EST01709
c 110	16.4	82.0	644	1	AV882296	AV882296 AV882986	c 183	15.8	79.0	421	10	CE259280	CE259280 tigr-g88-
c 111	16.4	82.0	656	5	BY704117	BY704117 BY704117	c 184	15.8	79.0	429	2	BE670700	BE670700 7e4u003.X
c 112	16.4	82.0	681	1	AV895997	AV895997 AV895997	c 185	15.8	79.0	437	1	AJ650499	AJ650499 AJ650499
c 113	16.4	82.0	683	10	CW112799	CW112799 104_486_1	c 186	15.8	79.0	444	8	DR699747	DR699747 An_1480.M
c 114	16.4	82.0	698	3	BM934001	BM934001 UI-N-CGDP	c 187	15.8	79.0	447	2	BE167362	BE167362 CM2-HT050
c 115	16.4	82.0	701	5	BM449888	BM449888 BM449888	c 188	15.8	79.0	448	1	AI180244	AI180244 EST233987
c 116	16.4	82.0	701	10	CW791005	CW791005 SP_Ba007	c 189	15.8	79.0	452	5	BU659469	BU659469 CL4b004.2
c 117	16.4	82.0	703	6	CB600076	CB600076 AGENCOURT	c 190	15.8	79.0	453	3	B1566115	B1566115 RH35240.5
c 118	16.4	82.0	710	3	BI407942	BI407942 602919395	c 191	15.8	79.0	464	1	AW961649	AW961649 EST373722
c 119	16.4	82.0	712	10	C2834686	C2834686 OC_Ba021	c 192	15.8	79.0	467	1	AA060159	AA060159 mj72e04.X
c 120	16.4	82.0	741	3	BI407420	BI407420 602919395	c 193	15.8	79.0	470	10	CW762099	CW762099 OG_BBA007
c 121	16.4	82.0	741	9	CC529204	CC529204 OGUILY74TH	c 194	15.8	79.0	472	1	AA080257	AA080257 mm34c10.X
c 122	16.4	82.0	748	5	BM419082	BM419082 BM419082	c 195	15.8	79.0	482	7	CV723210	CV723210 rootc-002
c 123	16.4	82.0	772	2	BF782967	BF782967 602109052	c 196	15.8	79.0	484	10	CL952316	CL952316 OBURUA000
c 124	16.4	82.0	773	3	BI905557	BI905557 603167721	c 197	15.8	79.0	484	7	CK225924	CK225924 702146262
c 125	16.4	82.0	774	5	BM473501	BM473501 BM473501	c 198	15.8	79.0	486	1	AI605748	AI605748 ma66d08.Y
c 126	16.4	82.0	776	6	CA491271	CA491271 AGENCOURT	c 199	15.8	79.0	488	3	BI448853	BI448853 dac70a08.
c 127	16.4	82.0	777	2	BF789751	BF789751 602105309	c 200	15.8	79.0	489	4	AY232078	AY232078 Drosophil
c 128	16.4	82.0	779	9	CC373947	CC373947 PUERHD69TD	c 201	15.8	79.0	491	3	BI373758	BI373758 RE61161.5
c 129	16.4	82.0	786	5	BM015603	BM015603 BM015603	c 202	15.8	79.0	495	6	CB713171	CB713171 ACHNNC:N
c 130	16.4	82.0	786	5	BM406578	BM406578 BM406578	c 203	15.8	79.0	497	9	BZ282118	BZ282118 CH230-335
c 131	16.4	82.0	793	10	CW090378	CW090378 104_436_1	c 204	15.8	79.0	511	1	AA044540	AA044540 mj10h07.X
c 132	16.4	82.0	798	10	CW605949	CW605949 OA_ABa014	c 205	15.8	79.0	516	9	BH226581	BH226581 100613380
c 133	16.4	82.0	809	7	CJA16010	CJA16010 CJ416010	c 206	15.8	79.0	520	1	AA169135	AA169135 zp20c09.8
c 134	16.4	82.0	815	10	CW708670	CW708670 AIAA-aab5	c 207	15.8	79.0	520	10	CE452689	CE452689 tigr-g88-
c 135	16.4	82.0	859	2	BF786665	BF786665 602111425	c 208	15.8	79.0	525	6	CB720149	CB720149 ACHNNC:N
c 136	16.4	82.0	913	3	BI526426	BI526426 602925555	c 209	15.8	79.0	527	6	CD913579	CD913579 G550.118G
c 137	16.4	82.0	920	2	BF782495	BF782495 602106510	c 210	15.8	79.0	527	7	CK225944	CK225944 703234657
c 138	16.4	82.0	927	3	BI524921	BI524921 602924621	c 211	15.8	79.0	534	1	AV432502	AV432502 AV432502
c 139	16.4	82.0	929	9	BZ696177	BZ696177 SP_Ba007	c 212	15.8	79.0	535	6	CD626243	CD626243 56066117H
c 140	16.4	82.0	978	3	BQ220455	BQ220455 AGENCOURT	c 213	15.8	79.0	537	5	BI623723	BI623723 RH56052.5
c 141	16.4	82.0	978	3	BQ220455	BQ220455 AGENCOURT	c 214	15.8	79.0	537	5	EX500637	EX500637 DKFp779N
c 142	16.4	82.0	997	5	BY712283	BY712283 EST754748	c 215	15.8	79.0	538	6	CD626242	CD626242 56053113J
c 143	16.4	82.0	1144	4	AK003860	AK003860 Mus muscu	c 216	15.8	79.0	539	3	BI367272	BI367272 RE53008.5
c 144	16.4	82.0	1250	4	AK013276	AK013276 Mus muscu	c 217	15.8	79.0	544	3	BI611442	BI611442 RH17657.5
c 145	16.4	82.0	1276	4	AK006068	AK006068 Mus muscu	c 218	15.8	79.0	545	6	CD626241	CD626241 56053113H
c 146	16.4	82.0	1309	10	AY402377	AY402377 Mus muscu	c 219	15.8	79.0	545	7	CO293412	CO293412 EK2028855
c 147	16.4	82.0	4805	3	AK040543	AK040543 Mus muscu	c 220	15.8	79.0	546	1	AW961645	AW961645 EST373718
c 148	16.4	82.0	662	9	BZ328241	BZ328241 id36e03.g	c 221	15.8	79.0	547	1	AV437889	AV437889 AV437889
c 149	16.4	82.0	711	7	CK304000	CK304000 SB02022A2	c 222	15.8	79.0	547	7	CK225937	CK225937 702145365
c 150	16.4	82.0	856	9	BZ734001	BZ734001 OGFCJ21TC	c 223	15.8	79.0	548	5	BU103340	BU103340 SCCCHR100
c 151	16.4	82.0	858	9	BZ734007	BZ734007 OGFCJ21TC	c 224	15.8	79.0	548	6	CA101176	CA101176 SCCCHR100
c 152	16.4	82.0	1384	10	AG135471	AG135471 Pan trogl	c 225	15.8	79.0	548	6	AW961643	AW961643 EST373716
c 153	15.8	79.0	91	9	BH226656	BH226656 1006133G0	c 226	15.8	79.0	551	2	BE503965	BE503965 hz55901.X
c 154	15.8	79.0	227	7	CK225922	CK225922 701913754	c 227	15.8	79.0	551	2	BE503965	BE503965 hz55901.X
c 155	15.8	79.0	228	2	BBS83500	BBS83500 BBS83500	c 228	15.8	79.0	555	7	CK134793	CK134793 RH02211.3
c 156	15.8	79.0	229	9	AO650881	AO650881 Sheared D	c 229	15.8	79.0	559	6	CD626245	CD626245 56066225H
c 157	15.8	79.0	231	8	W09954	W09954 ma66d08.r1	c 230	15.8	79.0	561	3	BI483760	BI483760 RE66691.5
c 158	15.8	79.0	253	7	CK225919	CK225919 700597359	c 231	15.8	79.0	561	3	BI612590	BI612590 RH41518.5
c 159	15.8	79.0	260	2	BG304743	BG304743 l198c05.Y	c 232	15.8	79.0	566	2	BN939049	BN939049 RH40806.X
c 160	15.8	79.0	267	6	CF138971	CF138971 UI-HF-CB0	c 233	15.8	79.0	570	8	CK100346	CK100346 RECh1202
c 161	15.8	79.0	269	3	BI577608	BI577608 RE71317.5	c 234	15.8	79.0	572	3	BU197271	BU197271 BJ197271
c 162	15.8	79.0	273	5	AQ073352	AQ073352 l(3)neolH	c 235	15.8	79.0	573	10	CZ852841	CZ852841 OC_Ba024
c 163	15.8	79.0	282	5	BX616315	BX616315 BX616315	c 236	15.8	79.0	575	3	BJ190582	BJ190582 BJ190582
c 164	15.8	79.0	286	3	BI607873	BI607873 RH11844.5	c 237	15.8	79.0	577	3	BP240318	BP240318 BP240318
c 165	15.8	79.0	287	9	AZ379074	AZ379074 lM0134C07	c 238	15.8	79.0	577	10	CW188150	CW188150 104_607_1
c 166	15.8	79.0	300	7	CK218707	CK218707 701487867	c 239	15.8	79.0	583	3	BP344333	BP344333 BP344333
c 167	15.8	79.0	306	1	AA323010	AA323010 EST25742	c 240	15.8	79.0	584	2	BI242013	BI242013 RE39227.5
c 168	15.8	79.0	307	7	CK225923	CK225923 701919205	c 241	15.8	79.0	584	5	BX477584	BX477584 DKF2p686K

242	15.8	79.0	585	2	BE975291	BE975291	bs41a06.y	315	15.8	79.0	752	7	CN245379	CN245379	EST011261
243	15.8	79.0	585	6	CA081925	CA081925	SCAGAM202	C 316	15.8	79.0	757	9	CK225943	CK225943	703125904
244	15.8	79.0	585	9	AO292460	AO292460	HS 2264 A	C 317	15.8	79.0	759	7	BZ725779	BZ725779	QGRBS507M
245	15.8	79.0	587	7	CK225945	CK225945	70324250	C 318	15.8	79.0	764	7	CV080415	CV080415	AGENCOURT
246	15.8	79.0	588	3	BI634086	BI634086	RH37293.5	C 319	15.8	79.0	770	5	BUS17633	BUS17633	AGENCOURT
247	15.8	79.0	588	6	CA582700	CA582700	EST002375	C 320	15.8	79.0	776	8	DR945014	DR945014	EST113655
248	15.8	79.0	591	10	CU981113	CU981113	OBIFCC035	C 321	15.8	79.0	779	9	BZ994905	BZ994905	PUGEH167B
249	15.8	79.0	597	3	BI617647	BI617647	RH48046.5	C 322	15.8	79.0	790	7	CK225949	CK225949	70432660
250	15.8	79.0	598	2	BG396288	BG396288	602459078	C 323	15.8	79.0	791	8	CK622606	CK622606	GABR1 65
251	15.8	79.0	606	6	CA142340	CA142340	SCMCR7208	C 324	15.8	79.0	792	7	CK032120	CK032120	AGENCOURT
252	15.8	79.0	607	7	CK225939	CK225939	702558574	C 325	15.8	79.0	793	9	CC634145	CC634145	OGWEQ86TV
253	15.8	79.0	608	3	BI613010	BI613010	RH42061.5	C 326	15.8	79.0	799	2	BI146842	BI146842	602911741
254	15.8	79.0	609	7	CK225947	CK225947	703964885	C 327	15.8	79.0	801	9	CC664967	CC664967	OGJBG46TV
255	15.8	79.0	610	8	DN422359	DN422359	LI84216.0	C 328	15.8	79.0	811	2	BG866479	BG866479	602785427
256	15.8	79.0	617	3	BI607168	BI607168	RH74177.5	C 329	15.8	79.0	820	7	CK225946	CK225946	703902310
257	15.8	79.0	620	10	CE969403	CE969403	tigr-gss-	C 330	15.8	79.0	824	3	BI655319	BI655319	603283348
258	15.8	79.0	621	2	BG394067	BG394067	602456227	C 331	15.8	79.0	831	10	CZ309064	CZ309064	ZMBF0005
259	15.8	79.0	621	6	CA081570	CA081570	SCAGAM201	C 332	15.8	79.0	838	2	BG774405	BG774405	602662451
260	15.8	79.0	623	10	CH826017	CH826017	tigr-gss-	C 333	15.8	79.0	876	2	BG329891	BG329891	602429586
261	15.8	79.0	624	3	BI580407	BI580407	RE74596.5	C 334	15.8	79.0	883	5	BQ946535	BQ946535	AGENCOURT
262	15.8	79.0	624	10	CW856459	CW856459	sh2a19-14	C 335	15.8	79.0	886	5	BQ931813	BQ931813	AGENCOURT
263	15.8	79.0	626	2	BG028469	BG028469	602294380	C 336	15.8	79.0	886	6	CH202962	CH202962	AGENCOURT
264	15.8	79.0	626	6	CA753583	CA753583	002200190	C 337	15.8	79.0	894	3	BI957835	BI957835	HVSMen001
265	15.8	79.0	629	10	CL181635	CL181635	104_332.1	C 338	15.8	79.0	898	2	BE730652	BE730652	601569849
266	15.8	79.0	635	11	DE090027	DE090027	Oryzias 1	C 339	15.8	79.0	910	5	BUS01720	BUS01720	AGENCOURT
267	15.8	79.0	636	2	BE255986	BE255986	601113382	C 340	15.8	79.0	912	8	DR919286	DR919286	EST111082
268	15.8	79.0	639	2	BG773888	BG773888	602661590	C 341	15.8	79.0	918	8	DR939121	DR939121	EST113066
269	15.8	79.0	641	10	CW144270	CW144270	104_536.1	C 342	15.8	79.0	918	8	DR919287	DR919287	EST111082
270	15.8	79.0	645	7	CF947073	CF947073	UI-D-GC1-	C 343	15.8	79.0	940	5	BQ924602	BQ924602	AGENCOURT
271	15.8	79.0	645	7	CF947073	CF947073	UI-D-GC1-	C 344	15.8	79.0	944	5	BQ957168	BQ957168	AGENCOURT
272	15.8	79.0	646	6	CA135603	CA135603	SCJLRT102	C 345	15.8	79.0	947	7	CF883258	CF883258	tr1c033xm
273	15.8	79.0	646	10	CW413645	CW413645	fsbb001f1	C 346	15.8	79.0	954	10	CNS000RX	CNS000RX	AL050777 Drocephal
274	15.8	79.0	651	10	CZ165594	CZ165594	OC Ba000	C 347	15.8	79.0	984	7	CO546991	CO546991	LYEST3163
275	15.8	79.0	654	3	BI591339	BI591339	RH05092.5	C 348	15.8	79.0	1010	5	EX378261	EX378261	EX378261
276	15.8	79.0	660	9	BH214891	BH214891	1006012C0	C 349	15.8	79.0	1015	10	CG112896	CG112896	PUBBBS2TB
277	15.8	79.0	663	2	BG322842	BG322842	602428308	C 350	15.8	79.0	1024	2	BG395482	BG395482	602458057
278	15.8	79.0	663	6	CA066030	CA066030	SCBGAD102	C 351	15.8	79.0	1037	10	CG112898	CG112898	PUBBBS2TD
279	15.8	79.0	666	3	BI588543	BI588543	RH29902.5	C 352	15.8	79.0	1065	1	AL548109	AL548109	AL548109
280	15.8	79.0	673	6	CD626244	CD626244	56066117J	C 353	15.8	79.0	1099	2	BE730636	BE730636	601569832
281	15.8	79.0	674	6	CB845945	CB845945	M2PN-1657	C 354	15.8	79.0	1109	8	DR735974	DR735974	FGAS08148
282	15.8	79.0	675	7	CK476694	CK476694	AGENCOURT	C 355	15.8	79.0	1113	2	BG395376	BG395376	602457921
283	15.8	79.0	676	3	BI619076	BI619076	RH50045.5	C 356	15.8	79.0	1134	3	BM545936	BM545936	AGENCOURT
284	15.8	79.0	676	6	CA619282	CA619282	wlin.pk00	C 357	15.8	79.0	1347	11	DQ036349	DQ036349	Homo sapi
285	15.8	79.0	676	10	AG292125	AG292125	Mus muscu	C 358	15.8	79.0	1402	8	DN693731	DN693731	CGX90-B07
286	15.8	79.0	678	9	BZ335145	BZ335145	hx95909.b	C 359	15.8	79.0	2279	4	CR593250	CR593250	full1-leng
287	15.8	79.0	679	3	BI569990	BI569990	RH02211.5	C 360	15.8	79.0	2698	4	AK081367	AK081367	Mus muscu
288	15.8	79.0	686	2	BE309136	BE309136	601093328	C 361	15.4	77.0	202	3	BM140559	BM140559	WHE0485 h
289	15.8	79.0	690	6	CA191510	CA191510	SCCORT2C0	C 362	15.4	77.0	233	9	AZ347485	AZ347485	1M0083A08
290	15.8	79.0	696	6	CD913580	CD913580	G550.118G	C 363	15.4	77.0	287	8	R35753	R35753	YH90c01.r1
291	15.8	79.0	701	10	AG341973	AG341973	Mus muscu	C 364	15.4	77.0	305	3	BI758225	BI758225	603029870
292	15.8	79.0	705	2	BI104307	BI104307	602889876	C 365	15.4	77.0	325	2	BF364877	BF364877	QVO-VN114
293	15.8	79.0	707	8	DR026508	DR026508	Osmo00360	C 366	15.4	77.0	352	1	AI944971	AI944971	bs07e09.y
294	15.8	79.0	708	10	CW188151	CW188151	104_607.1	C 367	15.4	77.0	376	8	TE63103	TE63103	Yb97e06.r1
295	15.8	79.0	709	7	CK225948	CK225948	704324043	C 368	15.4	77.0	418	7	CN370135	CN370135	170004710
296	15.8	79.0	710	9	CF722285	CF722285	OG0EB62TH	C 369	15.4	77.0	420	7	CO822634	CO822634	LM GB5 .00
297	15.8	79.0	712	6	CF547372	CF547372	AGENCOURT	C 370	15.4	77.0	422	7	CK884119	CK884119	SGF147979
298	15.8	79.0	713	10	CW191688	CW191688	104_613.1	C 371	15.4	77.0	425	9	CC064298	CC064298	fyma007e0
299	15.8	79.0	718	10	CL150363	CL150363	104_332.1	C 372	15.4	77.0	429	10	AG937063	AG937063	Drosophila
300	15.8	79.0	720	2	BF215064	BF215064	601846726	C 373	15.4	77.0	442	7	CO822616	CO822616	LM GB5 .00
301	15.8	79.0	723	8	CK623018	CK623018	GABR1_67	C 374	15.4	77.0	445	9	AQ849280	AQ849280	LMJFV1 1
302	15.8	79.0	724	11	CR813311	CR813311	GROAAA37D	C 375	15.4	77.0	454	7	CF959524	CF959524	11925r8fC
303	15.8	79.0	726	1	AI961707	AI961707	wt66c10.x	C 376	15.4	77.0	479	7	CK130601	CK130601	AT12146.3
304	15.8	79.0	729	9	BZ994910	BZ994910	PUGEH16TD	C 377	15.4	77.0	506	1	AW064858	AW064858	ST36F09 P
305	15.8	79.0	739	7	AI113698	AI113698	GH10129.5	C 378	15.4	77.0	519	6	CA362879	CA362879	637210 NC
306	15.8	79.0	739	7	CK225941	CK225941	702805028	C 379	15.4	77.0	533	3	CA597186	CA597186	wpa1c.pk0
307	15.8	79.0	740	5	BQ705205	BQ705205	Y1A01A02	C 380	15.4	77.0	523	1	AW941810	AW941810	GH15479.3
308	15.8	79.0	741	6	CA075084	CA075084	SCJFAM106	C 381	15.4	77.0	528	6	CA769335	CA769335	esal1qb53
309	15.8	79.0	741	10	CE833412	CE833412	tigr-gss-	C 382	15.4	77.0	533	5	CA041949	CA041949	esal1pnb5
310	15.8	79.0	744	6	CA945274	CA945274	UI-M-PD0-	C 383	15.4	77.0	553	3	AQ675248	AQ675248	HS 5485 B
311	15.8	79.0	746	8	DN932851	DN932851	AGENCOURT	C 384	15.4	77.0	556	9	AQ675248	AQ675248	HS 5485 B
312	15.8	79.0	748	7	CK218708	CK218708	704196818	C 385	15.4	77.0	557	7	CO822613	CO822613	LM GB5 .00
313	15.8	79.0	750	6	CF546813	CF546813	AGENCOURT	C 386	15.4	77.0	563	7	CK886386	CK886386	SGP166818
314	15.8	79.0	752	2	BE394336	BE394336	601311475	C 387	15.4	77.0					

C 388	15.4	77.0	568	5	BU997607 HI08H17r	C 461	15.2	76.0	119	6	CD086558	CD086558 MC1-0025T
C 389	15.4	77.0	573	6	CB858838 HI08H17w	C 462	15.2	76.0	121	9	BH217663	BH217663 1006057E0
C 390	15.4	77.0	574	5	CA052996 ssalr9b52	C 463	15.2	76.0	131	9	BH234445	BH234445 1006179C0
C 391	15.4	77.0	574	10	CA052996 ssalr9b52	C 464	15.2	76.0	141	1	AJ497133	AJ497133 AJ497133
C 392	15.4	77.0	575	6	CA647085 wreln.pk0	C 465	15.2	76.0	141	9	BH407142	BH407142 1007005C0
C 393	15.4	77.0	582	6	CA770233 ssalr9b51	C 466	15.2	76.0	151	9	BH224595	BH224595 1006120A0
C 394	15.4	77.0	584	3	BP324413 BP324413	C 467	15.2	76.0	158	9	BH416419	BH416419 1007048A0
C 395	15.4	77.0	588	6	CA381743 661306 NC	C 468	15.2	76.0	160	9	BH619518	BH619518 1007059E0
C 396	15.4	77.0	589	7	CO822615 LMGB5.00	C 469	15.2	76.0	165	9	BH639956	BH639956 1008032H1
C 397	15.4	77.0	591	2	BG710140 p9lin.pk0	C 470	15.2	76.0	166	2	BH843681	BH843681 CM3-TN006
C 398	15.4	77.0	597	7	CV173174 dba33c11	C 471	15.2	76.0	169	9	BH644943	BH644943 1008044D0
C 399	15.4	77.0	614	6	CB505254 ssalr9b50	C 472	15.2	76.0	189	9	BH229804	BH229804 1007082C0
C 400	15.4	77.0	621	9	AQ779706 HS 5571.B	C 473	15.2	76.0	209	9	BH806643	BH806643 1008042D0
C 401	15.4	77.0	622	7	CO600038 DGB-194G1	C 474	15.2	76.0	226	9	BH413565	BH413565 1007033C0
C 402	15.4	77.0	626	10	CE2603264 OM_BA012	C 475	15.2	76.0	227	7	CR735534	CR735534 CR735534
C 403	15.4	77.0	627	6	CB504215 ssalr9b51	C 476	15.2	76.0	227	8	D60459	D60459 HUM110F01A
C 404	15.4	77.0	630	9	AZ399550 LM0165N19	C 477	15.2	76.0	240	1	AI934255	AI934255 wn99007.X
C 405	15.4	77.0	635	7	CN989426 65489.125	C 478	15.2	76.0	247	9	CC455384	CC455384 SALK_0819
C 406	15.4	77.0	639	10	CL980884 O81FC035	C 479	15.2	76.0	248	1	AA707498	AA707498 ah40F09.s
C 407	15.4	77.0	641	7	CN984260 531212.126	C 480	15.2	76.0	257	10	AG267848	AG267848 Cyanidios
C 408	15.4	77.0	641	11	DR014460 Branchios	C 481	15.2	76.0	262	2	BF955711	BF955711 CM2-NN024
C 409	15.4	77.0	643	5	CA054283 ssalr9b51	C 482	15.2	76.0	263	2	BG996903	BG996903 RC4-HT109
C 410	15.4	77.0	650	7	CO833447 LM GB5.00	C 483	15.2	76.0	269	1	AA425625	AA425625 zv83c12.s
C 411	15.4	77.0	651	10	CL938632 OA_ABA005	C 484	15.2	76.0	272	9	BH232104	BH232104 1006166A1
C 412	15.4	77.0	653	3	BM370495 EBR508.SQ	C 485	15.2	76.0	273	1	AA370842	AA370842 EST82818
C 413	15.4	77.0	678	3	BM610498 17006871	C 486	15.2	76.0	277	11	CR061002	CR061002 Reverse.s
C 414	15.4	77.0	679	7	CO822614 LM GB5.00	C 487	15.2	76.0	282	5	EX112234	EX112234 BX112234
C 415	15.4	77.0	680	10	CM578325 OA_ABA010	C 488	15.2	76.0	291	1	AW801453	AW801453 IL5-UM006
C 416	15.4	77.0	686	5	CA050897 ssalr9b50	C 489	15.2	76.0	293	2	BF895477	BF895477 RCL-MT016
C 417	15.4	77.0	691	6	CA380973 660377 NC	C 490	15.2	76.0	294	1	AA643009	AA643009 nr95d05.s
C 418	15.4	77.0	695	6	CO822617 LM GB5.00	C 491	15.2	76.0	295	10	CG708109	CG708109 1119006E1
C 419	15.4	77.0	696	6	CA346637 67564.NC	C 492	15.2	76.0	299	1	AA853773	AA853773 NHTBCae08
C 420	15.4	77.0	700	7	CN975392 25217.125	C 493	15.2	76.0	299	6	CA414344	CA414344 UI-H-E20
C 421	15.4	77.0	703	6	CA361301 635102 NC	C 494	15.2	76.0	303	7	CV337183	CV337183 IL5-HT070
C 422	15.4	77.0	709	9	CC494752 CH240.330	C 495	15.2	76.0	305	1	AA938270	AA938270 oo97e06.s
C 423	15.4	77.0	710	6	CA344135 674477 NC	C 496	15.2	76.0	312	9	BH417728	BH417728 Musite01-
C 424	15.4	77.0	720	9	BZ893394 HL2.0176	C 497	15.2	76.0	321	7	CV337158	CV337158 IL5-HT070
C 425	15.4	77.0	723	6	CA350162 620933 NC	C 498	15.2	76.0	322	1	AA887287	AA887287 Oj48F04.s
C 426	15.4	77.0	739	10	CM780715 OP_BA008	C 499	15.2	76.0	328	6	CD011166	CD011166 VVB119H06
C 427	15.4	77.0	741	6	CB514471 ssalr9b55	C 500	15.2	76.0	330	3	BF060196	BF060196 BF060196
C 428	15.4	77.0	741	7	CN9888217 63995.125							
C 429	15.4	77.0	749	7	CV043226 dba09503							
C 430	15.4	77.0	765	7	CO474937 GQ00611.B							
C 431	15.4	77.0	773	10	BX188401 Danio rer							
C 432	15.4	77.0	787	5	BX081020 BX081020							
C 433	15.4	77.0	788	10	BX232420 Danio rer							
C 434	15.4	77.0	794	9	AQ729407 HS_5474.A							
C 435	15.4	77.0	795	11	CR184863 Reverse.s							
C 436	15.4	77.0	810	10	C2246419 A1AA-aag6							
C 437	15.4	77.0	811	6	CB515234 ssalr9b55							
C 438	15.4	77.0	811	8	CV766334 FGAS06072							
C 439	15.4	77.0	818	10	CL906398 OA_ABA000							
C 440	15.4	77.0	835	8	CV774272 FGAS06867							
C 441	15.4	77.0	854	10	CZ376159 ZMMBF0134							
C 442	15.4	77.0	859	10	AG897646 Oriza sat							
C 443	15.4	77.0	870	8	CV771286 FGAS06567							
C 444	15.4	77.0	872	10	CG875740 ZMMBCC028							
C 445	15.4	77.0	882	8	DR574038 WS00736.B							
C 446	15.4	77.0	887	10	CZ208733 A1AA-aag4							
C 447	15.4	77.0	892	6	CA972771 AGENCOURT							
C 448	15.4	77.0	893	2	BF105385 60182214							
C 449	15.4	77.0	945	10	CZ973464 176633.To							
C 450	15.4	77.0	950	9	BZ578330 mah2.5787							
C 451	15.4	77.0	956	9	CC399469 PUB1W307D							
C 452	15.4	77.0	1093	10	AL109040 Drosophil							
C 453	15.4	77.0	1163	8	DN706364 CLJ65-B09							
C 454	15.4	77.0	1357	8	DN694001 CGX91-F11							
C 455	15.2	76.0	72	10	CG713335 1119031D1							
C 456	15.2	76.0	93	10	AL756361 Arabidops							
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C 458	15.2	76.0	109	9	BH407921 1007053C0							
C 459	15.2	76.0	112	9	BH643356 1008057B0							
C 460	15.2	76.0	115	6	CF433997 NIT1_31_H							

ALIGNMENTS

RESULT 1
BE216970/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BE216970 336 bp mRNA linear EST 03-JUL-2000
EST0513 Triticum aestivum Lambda Zap Triticum aestivum cDNA clone
JAL 5C E09 T3 5' similar to Putative acetohydroxyacid synthase,
mRNA sequence.

BE216970 GI:8904656

BE216970.1 Triticum aestivum (bread wheat)

EST.

Triticum aestivum

Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

1 (bases 1 to 336)

Anderson, J.M., Williams, C.E. and Goodwin, S.B.

Analysis of an EST database reveals a probable CF2 resistance gene

homolog in wheat

unpublished (2000)

Contact: Anderson, J.M.

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Fax: 765-496-2926

Email: janderson@purdue.edu

Seq primer: T3

High quality sequence stop: 336.

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 69.1124 Seconds
(without alignments)
514.397 Million cell updates/sec

Title: US-10-805-973-5

Perfect score: 20

Sequence: 1 999agggatcattgccact 20

Scoring table:

IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

- Issued Patents NA.*
- 1: /cgm2_6/ptodata/1/ina/1 COMB.seq.*
 - 2: /cgm2_6/ptodata/1/ina/5 COMB.seq.*
 - 3: /cgm2_6/ptodata/1/ina/6A COMB.seq.*
 - 4: /cgm2_6/ptodata/1/ina/6B COMB.seq.*
 - 5: /cgm2_6/ptodata/1/ina/H COMB.seq.*
 - 6: /cgm2_6/ptodata/1/ina/PCBUS COMB.seq.*
 - 7: /cgm2_6/ptodata/1/ina/PP COMB.seq.*
 - 8: /cgm2_6/ptodata/1/ina/RE COMB.seq.*
 - 9: /cgm2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	17.4	87.0	4134	2	US-08-817-090B-1
2	17.4	87.0	4137	2	US-08-817-090B-3
3	17.4	87.0	5162	2	US-08-916-917-13
4	17.4	87.0	5162	3	US-09-225-170-13
5	16.4	82.0	1668	3	US-08-968-563-1
6	16.4	82.0	1668	3	US-08-969-683A-1
7	16.4	82.0	1668	3	US-09-307-973A-6
8	16.4	82.0	1668	3	US-09-308-207-1
9	16.4	82.0	1671	3	US-09-489-039A-2187
10	16.4	82.0	3117	2	US-08-172-331B-3
11	16.4	82.0	5268	3	US-08-830-751-9
12	16.4	82.0	12145	3	US-08-968-563-19
13	16.4	82.0	12145	3	US-08-969-683A-19
14	16.4	82.0	12145	3	US-09-369-796-1
15	16.4	82.0	12145	3	US-09-307-973A-10
16	16.4	82.0	12145	3	US-09-641-652-1
17	16.4	82.0	12145	3	US-09-308-207-19
18	16.4	82.0	13543	3	US-10-127-862-1
19	15.8	79.0	741	3	US-09-270-767-13758
20	15.8	79.0	2084	3	US-09-152-060-11
21	15.8	79.0	2084	3	US-09-852-797-11
22	15.8	79.0	2084	3	US-09-853-161-11
23	15.8	79.0	2084	3	US-10-058-993-11
24	15.8	79.0	36181	3	US-08-311-731A-120

c 25	15.8	79.0	84587	3	US-09-949-016-15733	Sequence 15733, A
c 26	15.8	79.0	89047	3	US-09-596-002-34	Sequence 34, Appl
c 27	15.4	77.0	753	3	US-09-540-236-1304	Sequence 1304, Ap
c 28	15.4	77.0	37769	3	US-08-311-731A-23	Sequence 23, Appl
c 29	15.4	77.0	393753	3	US-09-949-016-14573	Sequence 14573, A
c 30	15.4	77.0	393753	3	US-09-949-016-14574	Sequence 14574, A
c 31	15.4	77.0	818128	3	US-09-949-016-14546	Sequence 14546, A
c 32	15.4	77.0	818128	3	US-09-949-016-14547	Sequence 14547, A
c 33	15.4	77.0	818128	3	US-09-949-016-14548	Sequence 14548, A
c 34	15.4	77.0	818128	3	US-09-949-016-14549	Sequence 14549, A
c 35	15.4	77.0	818128	3	US-09-949-016-14550	Sequence 14550, A
c 36	15.4	77.0	818128	3	US-09-949-016-14551	Sequence 14551, A
c 37	15.4	77.0	818128	3	US-09-949-016-14552	Sequence 14552, A
c 38	15.4	77.0	818128	3	US-09-949-016-14553	Sequence 14553, A
c 39	15.4	77.0	818128	3	US-09-949-016-14554	Sequence 14554, A
c 40	15.4	77.0	818128	3	US-09-949-016-14555	Sequence 14555, A
c 41	15.4	77.0	818128	3	US-09-949-016-14556	Sequence 14556, A
c 42	15.4	77.0	818128	3	US-09-949-016-14557	Sequence 14557, A
c 43	15.4	77.0	818128	3	US-09-949-016-14558	Sequence 14558, A
c 44	15.4	77.0	818128	3	US-09-949-016-14559	Sequence 14559, A
c 45	15.4	77.0	818128	3	US-09-949-016-14560	Sequence 14560, A
c 46	15.4	77.0	818128	3	US-09-949-016-14561	Sequence 14561, A
c 47	15.4	77.0	818128	3	US-09-949-016-14562	Sequence 14562, A
c 48	15.4	77.0	818128	3	US-09-949-016-14564	Sequence 14564, A
c 49	15.4	77.0	818128	3	US-09-949-016-14565	Sequence 14565, A
c 50	15.4	77.0	818128	3	US-09-949-016-14566	Sequence 14566, A
c 51	15.4	77.0	818128	3	US-09-949-016-14567	Sequence 14567, A
c 52	15.2	76.0	264	3	US-09-107-532A-2112	Sequence 2112, Ap
c 53	15.2	76.0	357	2	US-08-673-190A-6	Sequence 6, Appl
c 54	15.2	76.0	514	3	US-08-875-573-5	Sequence 5, Appl
c 55	15.2	76.0	514	3	US-09-764-413-5	Sequence 5, Appl
c 56	15.2	76.0	600	3	US-09-107-532A-3027	Sequence 3027, Ap
c 57	15.2	76.0	686	3	US-09-533-559-5903	Sequence 5903, Ap
c 58	15.2	76.0	987	3	US-09-543-681A-323	Sequence 323, App
c 59	15.2	76.0	1005	3	US-09-252-991A-1549	Sequence 1549, Ap
c 60	15.2	76.0	1095	3	US-10-258-842-1	Sequence 1, Appl
c 61	15.2	76.0	1386	3	US-09-489-039A-6203	Sequence 6203, Ap
c 62	15.2	76.0	1417	3	US-09-949-016-4521	Sequence 4521, Ap
c 63	15.2	76.0	1452	3	US-09-489-039A-5847	Sequence 5847, Ap
c 64	15.2	76.0	1476	3	US-09-976-594-147	Sequence 147, App
c 65	15.2	76.0	1491	3	US-09-252-991A-10210	Sequence 10210, A
c 66	15.2	76.0	1492	3	US-09-232-855-637	Sequence 637, App
c 67	15.2	76.0	1607	3	US-08-875-573-19	Sequence 19, Appl
c 68	15.2	76.0	1607	3	US-09-764-413-19	Sequence 19, Appl
c 69	15.2	76.0	1659	3	US-09-252-991A-1566	Sequence 1566, Ap
c 70	15.2	76.0	1677	3	US-08-939-107-33	Sequence 33, Appl
c 71	15.2	76.0	1677	3	US-09-016-434-1117	Sequence 1117, Ap
c 72	15.2	76.0	1677	3	US-09-023-855-933	Sequence 933, App
c 73	15.2	76.0	1677	3	US-09-067-447B-33	Sequence 33, Appl
c 74	15.2	76.0	1677	3	US-09-837-446-1	Sequence 1, Appl
c 75	15.2	76.0	1692	3	US-09-252-991A-9844	Sequence 9844, Ap
c 76	15.2	76.0	1695	3	US-09-232-878-1	Sequence 1, Appl
c 77	15.2	76.0	1956	3	US-09-620-312D-68	Sequence 68, Appl
c 78	15.2	76.0	1986	3	US-10-258-842-20	Sequence 20, Appl
c 79	15.2	76.0	1986	3	US-10-258-842-18	Sequence 18, Appl
c 80	15.2	76.0	1986	3	US-10-258-842-14	Sequence 14, Appl
c 81	15.2	76.0	1986	3	US-10-258-842-24	Sequence 24, Appl
c 82	15.2	76.0	2167	3	US-09-949-016-1034	Sequence 1034, Ap
c 83	15.2	76.0	3626	3	US-09-900-237-29	Sequence 29, Appl
c 84	15.2	76.0	4338	3	US-09-360-237-4	Sequence 4, Appl
c 85	15.2	76.0	4338	3	US-09-891-711-3	Sequence 3, Appl
c 86	15.2	76.0	4338	3	US-09-949-016-542	Sequence 542, App
c 87	15.2	76.0	4338	3	US-09-949-016-4816	Sequence 4816, Ap
c 88	15.2	76.0	4338	3	US-09-949-016-4198	Sequence 4198, Ap
c 89	15.2	76.0	29121	3	US-09-949-016-16263	Sequence 16263, A
c 90	15.2	76.0	67156	3	US-09-949-016-12284	Sequence 12284, A
c 91	15.2	76.0	67157	3	US-09-949-016-16558	Sequence 16558, A
c 92	15.2	76.0	154023	3	US-09-949-016-17057	Sequence 17057, A
c 93	15	75.0	536165	3	US-09-214-808-1	Sequence 1, Appl
c 94	14.8	74.0	98	3	US-09-270-767-2221	Sequence 2221, Ap
c 95	14.8	74.0	98	3	US-09-270-767-17503	Sequence 17503, A
c 96	14.8	74.0	468	3	US-09-252-991A-11339	Sequence 11339, A
c 97	14.8	74.0	516	3	US-09-252-991A-11358	Sequence 11358, A

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C 99	14.8	74.0	601	3	US-09-949-016-56036	Sequence 56036, A	C 172	14.2	71.0	598	3	US-09-270-767-2598	Sequence 2598, Ap
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C 101	14.8	74.0	601	3	US-09-949-016-56054	Sequence 56054, A	C 174	14.2	71.0	601	3	US-09-949-016-22654	Sequence 22654, A
C 102	14.8	74.0	812	3	US-09-489-039A-3036	Sequence 3036, Ap	C 175	14.2	71.0	601	3	US-09-949-016-40523	Sequence 40523, A
C 103	14.8	74.0	822	3	US-09-902-540-4324	Sequence 4324, Ap	C 176	14.2	71.0	601	3	US-09-949-016-40524	Sequence 40524, A
C 104	14.8	74.0	846	3	US-09-134-000C-1624	Sequence 1624, Ap	C 177	14.2	71.0	601	3	US-09-949-016-63862	Sequence 63862, A
C 105	14.8	74.0	1107	3	US-09-252-991A-13336	Sequence 13336, A	C 178	14.2	71.0	601	3	US-09-949-016-63863	Sequence 63863, A
C 106	14.8	74.0	1179	3	US-09-252-991A-13193	Sequence 13193, A	C 179	14.2	71.0	601	3	US-09-949-016-63937	Sequence 63937, A
C 107	14.8	74.0	1305	3	US-09-489-039A-2169	Sequence 2169, Ap	C 180	14.2	71.0	601	3	US-09-949-016-63938	Sequence 63938, A
C 108	14.8	74.0	1308	3	US-09-252-991A-12614	Sequence 12614, A	C 181	14.2	71.0	601	3	US-09-949-016-90077	Sequence 90077, A
C 109	14.8	74.0	1320	3	US-09-902-540-2397	Sequence 2397, Ap	C 182	14.2	71.0	601	3	US-09-949-016-172738	Sequence 172738, A
C 110	14.8	74.0	1416	3	US-09-252-991A-2625	Sequence 2625, Ap	C 183	14.2	71.0	601	3	US-09-949-016-202121	Sequence 202121, A
C 111	14.8	74.0	1484	3	US-09-902-540-364	Sequence 364, App	C 184	14.2	71.0	601	3	US-09-949-002-1575	Sequence 1575, Ap
C 112	14.8	74.0	1584	3	US-09-252-991A-2288	Sequence 2288, Ap	C 185	14.2	71.0	601	3	US-09-949-002-7009	Sequence 7009, Ap
C 113	14.8	74.0	1681	3	US-09-634-238-51	Sequence 51, Appl	C 186	14.2	71.0	609	3	US-09-533-559-1231	Sequence 1231, Ap
C 114	14.8	74.0	1919	3	US-09-614-912-175	Sequence 175, App	C 187	14.2	71.0	672	3	US-09-902-540-5479	Sequence 5479, Ap
C 115	14.8	74.0	1994	3	US-09-398-395A-41	Sequence 41, Appl	C 188	14.2	71.0	693	3	US-09-252-991A-5636	Sequence 5636, Ap
C 116	14.8	74.0	1994	3	US-09-887-586A-41	Sequence 41, Appl	C 189	14.2	71.0	825	3	US-09-252-991A-5595	Sequence 5595, Ap
C 117	14.8	74.0	1994	3	US-09-895-752-41	Sequence 41, Appl	C 190	14.2	71.0	843	3	US-09-489-039A-2990	Sequence 2990, Ap
C 118	14.8	74.0	1994	3	US-09-903-012B-41	Sequence 41, Appl	C 191	14.2	71.0	843	3	US-09-489-039A-5035	Sequence 5035, Ap
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C 121	14.8	74.0	2244	3	US-09-902-540-9009	Sequence 9009, Ap	C 194	14.2	71.0	999	3	US-09-252-991A-9087	Sequence 9087, Ap
C 122	14.8	74.0	3808	2	US-08-916-917-3	Sequence 3, Appl	C 195	14.2	71.0	1001	3	US-09-270-767-27766	Sequence 27766, A
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C 125	14.8	74.0	3808	2	US-08-972-630-3	Sequence 3, Appl	C 198	14.2	71.0	1069	3	US-09-799-451-548	Sequence 548, App
C 126	14.8	74.0	3808	2	US-08-972-630-3	Sequence 3, Appl	C 199	14.2	71.0	1092	3	US-09-712-363-90	Sequence 90, Appl
C 127	14.8	74.0	3808	2	US-09-225-170-3	Sequence 3, Appl	C 200	14.2	71.0	1100	3	US-09-949-016-4538	Sequence 4538, Ap
C 128	14.8	74.0	3808	2	US-09-225-170-3	Sequence 3, Appl	C 201	14.2	71.0	1185	3	US-09-252-991A-9001	Sequence 9001, Ap
C 129	14.8	74.0	8885	3	US-09-634-238-26	Sequence 26, Appl	C 202	14.2	71.0	1245	3	US-09-489-039A-3040	Sequence 3040, Ap
C 130	14.8	74.0	9176	3	US-09-949-016-17432	Sequence 17432, A	C 203	14.2	71.0	1260	3	US-09-252-991A-6317	Sequence 6317, Ap
C 131	14.8	74.0	12849	3	US-09-902-540-963	Sequence 963, App	C 204	14.2	71.0	1275	2	US-08-588-113-1	Sequence 1, Appl
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C 133	14.8	74.0	21590	3	US-09-949-016-13373	Sequence 13373, A	C 206	14.2	71.0	1288	3	US-09-949-016-229	Sequence 229, App
C 134	14.8	74.0	25733	3	US-09-902-540-1215	Sequence 1215, Ap	C 207	14.2	71.0	1288	3	US-09-949-016-4886	Sequence 4886, Ap
C 135	14.8	74.0	34125	3	US-09-782-378A-25	Sequence 25, Appl	C 208	14.2	71.0	1306	3	US-09-990-823-67	Sequence 67, Appl
C 136	14.8	74.0	43375	3	US-09-949-016-12688	Sequence 12688, A	C 209	14.2	71.0	1306	3	US-09-477-135A-67	Sequence 67, Appl
C 137	14.8	74.0	43375	3	US-09-949-016-15515	Sequence 15515, A	C 210	14.2	71.0	1312	2	US-08-205-506A-1	Sequence 1, Appl
C 138	14.8	74.0	158735	3	US-09-949-016-11989	Sequence 11989, A	C 211	14.2	71.0	1312	6	PCT-US94-02389-1	Sequence 1, Appl
C 139	14.8	74.0	158735	3	US-09-949-016-11989	Sequence 11989, A	C 212	14.2	71.0	1332	3	US-09-489-039A-3075	Sequence 3075, Ap
C 140	14.8	74.0	4403765	3	US-09-103-840A-2	Sequence 2, Appl	C 213	14.2	71.0	1359	3	US-09-252-991A-3294	Sequence 3294, Ap
C 141	14.8	74.0	4411529	3	US-09-103-840A-1	Sequence 1, Appl	C 214	14.2	71.0	1368	2	US-08-278-729A-24	Sequence 24, Appl
C 142	14.4	72.0	695	3	US-09-533-559-4967	Sequence 4967, Ap	C 215	14.2	71.0	1368	2	US-08-155-343A-24	Sequence 24, Appl
C 143	14.4	72.0	801	3	US-09-489-039A-3365	Sequence 3365, Ap	C 216	14.2	71.0	1368	2	US-08-406-672-24	Sequence 24, Appl
C 144	14.4	72.0	873	3	US-09-489-039A-3534	Sequence 3534, Ap	C 217	14.2	71.0	1368	2	US-08-643-563A-24	Sequence 24, Appl
C 145	14.4	72.0	1122	3	US-09-252-991A-2772	Sequence 2772, Ap	C 218	14.2	71.0	1368	2	US-08-643-763A-24	Sequence 24, Appl
C 146	14.4	72.0	1269	3	US-09-902-540-4090	Sequence 4090, Ap	C 219	14.2	71.0	1368	2	US-08-462-623-24	Sequence 24, Appl
C 147	14.4	72.0	1467	3	US-09-540-236-761	Sequence 761, App	C 220	14.2	71.0	1368	2	US-08-451-953A-24	Sequence 24, Appl
C 148	14.4	72.0	1983	3	US-09-489-039A-5295	Sequence 5295, Ap	C 221	14.2	71.0	1368	2	US-08-445-468A-24	Sequence 24, Appl
C 149	14.4	72.0	5455	2	US-08-342-930-1	Sequence 1, Appl	C 222	14.2	71.0	1368	2	US-08-461-397A-24	Sequence 24, Appl
C 150	14.4	72.0	23738	3	US-09-902-540-1203	Sequence 1203, Ap	C 223	14.2	71.0	1368	2	US-08-912-088A-24	Sequence 24, Appl
C 151	14.4	72.0	94750	3	US-09-596-002-38	Sequence 38, Appl	C 224	14.2	71.0	1368	2	US-08-278-730A-24	Sequence 24, Appl
C 152	14.4	72.0	117001	3	US-09-949-016-15684	Sequence 15684, A	C 225	14.2	71.0	1368	3	US-08-445-467-24	Sequence 24, Appl
C 153	14.4	72.0	181251	3	US-09-949-016-15970	Sequence 15970, A	C 226	14.2	71.0	1368	3	US-08-480-515A-24	Sequence 24, Appl
C 154	14.4	72.0	4403765	3	US-09-103-840A-2	Sequence 2, Appl	C 227	14.2	71.0	1368	3	US-08-271-556A-1	Sequence 1, Appl
C 155	14.4	72.0	4411529	3	US-09-103-840A-1	Sequence 1, Appl	C 228	14.2	71.0	1368	3	US-08-170-336-24	Sequence 24, Appl
C 156	14.2	71.0	20	3	US-09-593-589-55	Sequence 55, Appl	C 229	14.2	71.0	1368	3	US-08-461-113-24	Sequence 24, Appl
C 157	14.2	71.0	25	3	US-09-396-196G7-108059	Sequence 108059, A	C 230	14.2	71.0	1368	3	US-08-456-033-24	Sequence 24, Appl
C 158	14.2	71.0	52	3	US-09-911-909B-7	Sequence 7, Appl	C 231	14.2	71.0	1368	3	US-08-643-321-24	Sequence 23, Appl
C 159	14.2	71.0	161	3	US-09-313-294A-2955	Sequence 2955, Ap	C 232	14.2	71.0	1368	3	US-08-260-675-24	Sequence 24, Appl
C 160	14.2	71.0	219	3	US-09-489-039A-7065	Sequence 7065, Ap	C 233	14.2	71.0	1368	6	PCT-US93-07190-24	Sequence 24, Appl
C 161	14.2	71.0	281	3	US-09-313-294A-3174	Sequence 3174, Ap	C 234	14.2	71.0	1368	6	PCT-US93-07231-24	Sequence 24, Appl
C 162	14.2	71.0	359	3	US-09-252-991A-13881	Sequence 13881, A	C 235	14.2	71.0	1368	6	PCT-US93-08742-24	Sequence 24, Appl
C 163	14.2	71.0	455	3	US-09-270-767-341	Sequence 341, App	C 236	14.2	71.0	1368	6	PCT-US93-08808-24	Sequence 24, Appl
C 164	14.2	71.0	455	3	US-09-270-767-15623	Sequence 15623, A	C 237	14.2	71.0	1368	6	PCT-US93-08885-24	Sequence 24, Appl
C 165	14.2	71.0	465	3	US-09-252-991A-10797	Sequence 10797, A	C 238	14.2	71.0	1368	6	PCT-US93-08885-24	Sequence 24, Appl
C 166	14.2	71.0	480	3	US-09-252-991A-15417	Sequence 15417, A	C 239	14.2	71.0	1377	3	US-09-252-991A-3340	Sequence 3340, Ap
C 167	14.2	71.0	510	3	US-09-270-767-786	Sequence 786, App	C 240	14.2	71.0	1393	3	US-09-919-172-32	Sequence 32, Appl
C 168	14.2	71.0	510	3	US-09-270-767-16068	Sequence 16068, A	C 241	14.2	71.0	1413	3	US-09-949-016-2580	Sequence 2580, Ap
C 169	14.2	71.0	544	3	US-09-247-155-60	Sequence 60, Appl	C 242	14.2	71.0	1452	3	US-09-107-532A-1198	Sequence 1198, Ap
C 170	14.2	71.0	544	3	US-09-903-190-60	Sequence 60, Appl	C 243	14.2	71.0	1503	3	US-09-252-991A-13684	Sequence 13684, A

C 244	14.2	71.0	1512	3	US-09-252-991A-15311	Sequence 15311, A	317	14.2	71.0	22712	3	US-09-949-016-16760	Sequence 16760, A
C 245	14.2	71.0	1520	3	US-09-620-312D-458	Sequence 458, App	318	14.2	71.0	22712	3	US-09-949-016-16761	Sequence 16761, A
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C 249	14.2	71.0	1698	3	US-09-253-991A-10451	Sequence 10451, A	C 322	14.2	71.0	30973	3	US-09-949-016-11971	Sequence 11971, A
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C 252	14.2	71.0	1749	3	US-09-516-914-22	Sequence 22, Appl	C 325	14.2	71.0	37531	3	US-09-949-002-602	Sequence 602, App
C 253	14.2	71.0	1872	2	US-08-743-637B-17	Sequence 17, Appl	C 326	14.2	71.0	37531	3	US-09-949-002-602	Sequence 602, App
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C 257	14.2	71.0	2058	3	US-09-881-239-2	Sequence 2, Appl	C 330	14.2	71.0	49144	3	US-09-949-016-13608	Sequence 13608, A
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C 261	14.2	71.0	2097	2	US-08-655-345-3	Sequence 3, Appl	C 334	14.2	71.0	85869	3	US-09-949-016-12017	Sequence 12017, A
C 262	14.2	71.0	2097	3	US-09-183-275-3	Sequence 3, Appl	C 335	14.2	71.0	85869	3	US-09-949-016-16321	Sequence 16321, A
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C 269	14.2	71.0	2460	3	US-09-270-767-12063	Sequence 12063, A	C 342	14.2	71.0	99580	3	US-09-949-016-17411	Sequence 17411, A
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C 274	14.2	71.0	2475	3	US-09-726-968-1	Sequence 1, Appl	C 347	14.2	71.0	601	3	US-09-949-016-139479	Sequence 139479, A
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C 276	14.2	71.0	2517	3	US-08-733-360A-4	Sequence 4, Appl	C 349	14.2	71.0	831	3	US-09-252-991A-14120	Sequence 14120, A
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C 278	14.2	71.0	2517	3	US-08-916-935-4	Sequence 4, Appl	C 351	14.2	71.0	2829	3	US-09-252-991A-14110	Sequence 14110, A
C 279	14.2	71.0	2532	2	US-07-671-376C-4	Sequence 4, Appl	C 352	14.2	71.0	4287	3	US-09-252-991A-14160	Sequence 14160, A
C 280	14.2	71.0	2697	3	US-09-489-039A-3151	Sequence 3151, App	C 353	14.2	71.0	5798	3	US-09-595-386-1	Sequence 386-1
C 281	14.2	71.0	2721	3	US-09-252-991A-14887	Sequence 14887, A	C 354	14.2	71.0	5798	3	US-09-993-525-1	Sequence 525-1
C 282	14.2	71.0	2781	3	US-09-252-991A-14482	Sequence 14482, A	C 355	14.2	71.0	39195	3	US-08-311-731A-133	Sequence 133, App
C 283	14.2	71.0	2875	3	US-09-774-528-198	Sequence 198, App	C 356	14.2	71.0	86956	3	US-09-949-016-11294	Sequence 11294, A
C 284	14.2	71.0	2875	3	US-10-120-988-198	Sequence 198, App	C 357	14.2	71.0	23471	3	US-09-949-016-12387	Sequence 12387, A
C 285	14.2	71.0	2888	3	US-09-949-016-1866	Sequence 1866, App	C 358	14.2	71.0	23471	3	US-09-949-016-12724	Sequence 12724, A
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C 288	14.2	71.0	3014	3	US-09-429-093-1	Sequence 1, Appl	C 361	14.2	71.0	1830121	3	US-09-557-884-1	Sequence 1, Appl
C 289	14.2	71.0	3023	3	US-09-593-589-10	Sequence 10, Appl	C 362	14.2	71.0	1830121	3	US-09-643-990A-1	Sequence 1, Appl
C 290	14.2	71.0	3033	3	US-09-362-842-66	Sequence 66, Appl	C 363	14.2	71.0	1830121	3	US-10-158-865-1	Sequence 1, Appl
C 291	14.2	71.0	3033	3	US-09-270-767-13872	Sequence 13872, A	C 364	14.2	71.0	171	3	US-09-270-767-25580	Sequence 25580, A
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C 293	14.2	71.0	3240	3	US-09-631-022-4	Sequence 4, Appl	C 366	14.2	71.0	420	3	US-09-252-991A-10335	Sequence 10335, A
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C 297	14.2	71.0	3318	3	US-09-389-487-3	Sequence 3, Appl	C 370	14.2	71.0	601	3	US-09-949-016-22333	Sequence 22333, A
C 298	14.2	71.0	3318	3	US-09-414-643-3	Sequence 3, Appl	C 371	14.2	71.0	601	3	US-09-949-016-31127	Sequence 31127, A
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C 302	14.2	71.0	3385	3	US-09-414-643-1	Sequence 1, Appl	C 375	14.2	71.0	601	3	US-09-949-016-89870	Sequence 89870, A
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C 308	14.2	71.0	8048	3	US-09-976-594-553	Sequence 553, App	C 381	14.2	71.0	601	3	US-09-949-016-94207	Sequence 94207, A
C 309	14.2	71.0	8050	3	US-09-566-921-44	Sequence 44, Appl	C 382	14.2	71.0	601	3	US-09-949-016-94208	Sequence 94208, A
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47	16.4	82.0	2693	7	US-10-374-366-110	Sequence 110, App
48	16.4	82.0	2693	7	US-10-374-366-113	Sequence 113, App
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53	16.4	82.0	2693	7	US-10-374-366-133	Sequence 133, App
54	16.4	82.0	2693	7	US-10-374-366-137	Sequence 137, App
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17	15.2	76.0	79122	11	US-11-117-187-200	Sequence 200, App	
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c 100	13.8	69.0	1290	7	US-10-858-730-150	Sequence 150, App	c 173	13.6	68.0	790	7	US-10-750-623-47689	Sequence 47689, A
c 101	13.8	69.0	1400	11	US-11-136-537-7155	Sequence 7155, Ap	c 174	13.6	68.0	807	10	US-11-082-389-23	Sequence 23, Appl
c 102	13.8	69.0	1552	11	US-11-136-527-2107	Sequence 2107, Ap	c 175	13.6	68.0	831	7	US-10-467-657-2885	Sequence 2885, Ap
c 103	13.8	69.0	1639	7	US-10-750-185-45432	Sequence 45432, A	c 176	13.6	68.0	1059	7	US-10-750-185-44977	Sequence 44977, A
c 104	13.8	69.0	1639	7	US-10-750-623-45432	Sequence 45432, A	c 177	13.6	68.0	1059	7	US-10-750-623-44977	Sequence 44977, A
c 105	13.8	69.0	1704	7	US-10-750-185-32057	Sequence 32057, A	c 178	13.6	68.0	1149	7	US-10-750-185-59024	Sequence 59024, A
c 106	13.8	69.0	1704	7	US-10-750-623-32057	Sequence 32057, A	c 179	13.6	68.0	1149	7	US-10-750-623-59024	Sequence 59024, A
c 107	13.8	69.0	1821	7	US-10-750-185-60652	Sequence 60652, A	c 180	13.6	68.0	1239	7	US-10-750-185-59593	Sequence 59593, A
c 108	13.8	69.0	1821	7	US-10-750-623-60652	Sequence 60652, A	c 181	13.6	68.0	1239	7	US-10-750-623-59593	Sequence 59593, A
c 109	13.8	69.0	1974	11	US-11-136-527-3059	Sequence 3059, Ap	c 182	13.6	68.0	1248	7	US-10-750-185-34348	Sequence 34348, A
c 110	13.8	69.0	2489	7	US-10-750-185-61906	Sequence 61906, A	c 183	13.6	68.0	1248	7	US-10-750-623-34348	Sequence 34348, A
c 111	13.8	69.0	2489	7	US-10-750-623-61906	Sequence 61906, A	c 184	13.6	68.0	1345	7	US-10-750-185-58612	Sequence 58612, A
c 112	13.8	69.0	5931	11	US-11-000-688-928	Sequence 928, App	c 185	13.6	68.0	1345	7	US-10-750-623-58612	Sequence 58612, A
c 113	13.8	69.0	6021	11	US-11-136-527-274	Sequence 274, App	c 186	13.6	68.0	1347	11	US-11-052-554A-449	Sequence 449, App
c 114	13.8	69.0	33014	11	US-11-077-716-1	Sequence 1, Appli	c 187	13.6	68.0	1367	7	US-10-750-185-60266	Sequence 60266, A
c 115	13.8	69.0	33019	7	US-10-995-561-13371	Sequence 13371, A	c 188	13.6	68.0	1367	7	US-10-750-623-60266	Sequence 60266, A
c 116	13.8	69.0	33992	8	US-11-249-873-1	Sequence 1, Appli	c 189	13.6	68.0	1367	7	US-10-509-121-35	Sequence 35, Appl
c 117	13.8	69.0	33992	8	US-11-249-873-3	Sequence 3, Appli	c 190	13.6	68.0	1508	7	US-10-750-185-44350	Sequence 44350, A
c 118	13.8	69.0	33988	8	US-11-249-873-14	Sequence 14, Appli	c 191	13.6	68.0	1508	7	US-10-750-623-44350	Sequence 44350, A
c 119	13.8	69.0	34341	8	US-11-249-873-2	Sequence 2, Appli	c 192	13.6	68.0	1755	7	US-10-467-657-3159	Sequence 3159, Ap
c 120	13.8	69.0	34448	8	US-11-249-873-4	Sequence 4, Appli	c 193	13.6	68.0	1906	7	US-10-750-185-30542	Sequence 30542, A
c 121	13.8	69.0	34555	7	US-10-623-155-479	Sequence 479, App	c 194	13.6	68.0	1906	7	US-10-750-623-30542	Sequence 30542, A
c 122	13.8	69.0	34737	8	US-11-249-873-15	Sequence 15, Appli	c 195	13.6	68.0	2294	7	US-11-245-147-107	Sequence 107, App
c 123	13.8	69.0	35696	7	US-10-860-436-1	Sequence 1, Appli	c 196	13.6	68.0	2294	7	US-11-245-147-107	Sequence 107, App
c 124	13.8	69.0	35724	8	US-11-249-873-13	Sequence 13, Appli	c 197	13.6	68.0	2294	7	US-10-821-234-462	Sequence 462, App
c 125	13.8	69.0	35993	7	US-10-860-436-2	Sequence 2, Appli	c 198	13.6	68.0	2294	7	US-10-509-121-37	Sequence 37, Appl
c 126	13.8	69.0	35935	11	US-11-127-832-4	Sequence 4, Appli	c 199	13.6	68.0	2294	7	US-10-509-121-5	Sequence 5, Appli
c 127	13.8	69.0	35935	11	US-11-127-832-5	Sequence 5, Appli	c 200	13.6	68.0	2294	7	US-10-509-121-7	Sequence 7, Appli
c 128	13.8	69.0	36114	8	US-11-249-873-16	Sequence 16, Appli	c 201	13.6	68.0	2300	7	US-10-509-121-3	Sequence 3, Appli
c 129	13.8	69.0	100000	11	US-11-124-367A-5036	Sequence 5036, Ap	c 202	13.6	68.0	2300	7	US-10-509-121-1	Sequence 1, Appli
c 130	13.8	69.0	104299	11	US-11-000-688-1364	Sequence 1364, Ap	c 203	13.6	68.0	2301	7	US-10-509-121-38	Sequence 38, Appl
c 131	13.8	69.0	171715	11	US-11-121-086-79	Sequence 79, Appl	c 204	13.6	68.0	2389	11	US-11-000-688-8	Sequence 8, Appli
c 132	13.8	69.0	189993	11	US-11-121-086-78	Sequence 78, Appl	c 205	13.6	68.0	2691	10	US-11-081-566-1	Sequence 1, Appli
c 133	13.6	68.0	25	11	US-11-121-849-38862	Sequence 38862, A	c 206	13.6	68.0	2691	11	US-11-108-172-121	Sequence 121, App
c 134	13.6	68.0	25	11	US-11-121-849-290684	Sequence 290684, A	c 207	13.6	68.0	2691	11	US-11-108-172-121	Sequence 121, App
c 135	13.6	68.0	25	11	US-11-121-849-493419	Sequence 493419, A	c 208	13.6	68.0	2691	11	US-11-186-284-200	Sequence 200, App
c 136	13.6	68.0	201	7	US-10-995-561-50177	Sequence 50177, A	c 209	13.6	68.0	2795	11	US-11-226-701-10	Sequence 10, Appl
c 137	13.6	68.0	201	7	US-10-995-561-55247	Sequence 55247, A	c 210	13.6	68.0	2795	11	US-11-000-688-268	Sequence 268, App
c 138	13.6	68.0	201	7	US-10-995-561-64777	Sequence 64777, A	c 211	13.6	68.0	3279	11	US-11-113-751-37	Sequence 37, Appl
c 139	13.6	68.0	201	7	US-10-995-561-71062	Sequence 71062, A	c 212	13.6	68.0	3279	11	US-11-113-751-39	Sequence 39, Appl
c 140	13.6	68.0	337	7	US-10-995-561-83595	Sequence 83595, A	c 213	13.6	68.0	3348	11	US-11-113-751-31	Sequence 31, Appl
c 141	13.6	68.0	337	7	US-10-453-372-479	Sequence 479, App	c 214	13.6	68.0	3348	11	US-11-113-751-33	Sequence 33, Appl
c 142	13.6	68.0	344	7	US-10-453-372-481	Sequence 481, App	c 215	13.6	68.0	3354	11	US-11-113-751-41	Sequence 41, Appl
c 143	13.6	68.0	344	7	US-10-453-372-483	Sequence 483, App	c 216	13.6	68.0	3363	11	US-11-113-751-18	Sequence 18, Appl
c 144	13.6	68.0	346	7	US-10-453-372-487	Sequence 487, App	c 217	13.6	68.0	3434	11	US-11-113-751-30	Sequence 30, Appl
c 145	13.6	68.0	396	7	US-10-769-744-488	Sequence 488, App	c 218	13.6	68.0	3453	11	US-11-113-751-17	Sequence 17, Appl
c 146	13.6	68.0	396	7	US-10-769-744-489	Sequence 489, App	c 219	13.6	68.0	3453	11	US-11-113-751-35	Sequence 35, Appl
c 147	13.6	68.0	396	11	US-11-096-191-596	Sequence 596, App	c 220	13.6	68.0	3633	7	US-10-821-234-543	Sequence 543, App
c 148	13.6	68.0	396	11	US-11-096-191-597	Sequence 597, App	c 221	13.6	68.0	3802	7	US-10-775-169-186	Sequence 186, App
c 149	13.6	68.0	455	7	US-10-986-501-80	Sequence 80, Appl	c 222	13.6	68.0	4082	7	US-10-750-185-30891	Sequence 30891, A
c 150	13.6	68.0	473	11	US-11-108-172-10	Sequence 10, Appl	c 223	13.6	68.0	4082	7	US-10-750-623-30891	Sequence 30891, A
c 151	13.6	68.0	475	7	US-10-453-372-485	Sequence 485, App	c 224	13.6	68.0	4216	11	US-11-136-527-605	Sequence 605, App
c 152	13.6	68.0	500	11	US-11-128-061-2294	Sequence 2294, Ap	c 225	13.6	68.0	6435	11	US-11-134-795-7	Sequence 7, Appli
c 153	13.6	68.0	500	11	US-11-128-061-5936	Sequence 5936, Ap	c 226	13.6	68.0	9430	11	US-11-137-315A-39	Sequence 39, Appl
c 154	13.6	68.0	500	11	US-11-128-049-2294	Sequence 2294, Ap	c 227	13.6	68.0	9430	11	US-11-180-074-34	Sequence 34, Appl
c 155	13.6	68.0	500	11	US-11-128-049-5936	Sequence 5936, Ap	c 228	13.6	68.0	12604	11	US-11-137-315A-44	Sequence 44, Appl
c 156	13.6	68.0	535	11	US-11-128-061-2771	Sequence 2771, Ap	c 229	13.6	68.0	12604	11	US-11-180-074-39	Sequence 39, Appl
c 157	13.6	68.0	535	11	US-11-128-061-6413	Sequence 6413, Ap	c 230	13.6	68.0	14561	11	US-11-137-315A-47	Sequence 47, Appl
c 158	13.6	68.0	535	11	US-11-128-049-2771	Sequence 2771, Ap	c 231	13.6	68.0	14561	11	US-11-180-074-42	Sequence 42, Appl
c 159	13.6	68.0	535	11	US-11-128-049-6413	Sequence 6413, Ap	c 232	13.6	68.0	14567	11	US-11-137-315A-50	Sequence 50, Appl
c 160	13.6	68.0	578	11	US-11-128-061-1669	Sequence 1669, Ap	c 233	13.6	68.0	14567	11	US-11-180-074-45	Sequence 45, Appl
c 161	13.6	68.0	578	11	US-11-128-061-5311	Sequence 5311, Ap	c 234	13.6	68.0	46089	7	US-10-995-561-13325	Sequence 13325, A
c 162	13.6	68.0	578	11	US-11-128-049-1669	Sequence 1669, Ap	c 235	13.6	68.0	59590	11	US-11-117-187-187	Sequence 187, App
c 163	13.6	68.0	578	11	US-11-128-049-5311	Sequence 5311, Ap	c 236	13.6	68.0	96256	7	US-10-775-169-352	Sequence 352, App
c 164	13.6	68.0	600	7	US-10-467-657-2881	Sequence 2881, Ap	c 237	13.6	68.0	172543	11	US-11-121-086-6	Sequence 6, Appli
c 165	13.6	68.0	600	7	US-10-750-185-2487	Sequence 2487, Ap	c 238	13.6	68.0	193363	11	US-11-112-908-32	Sequence 32, Appl
c 166	13.6	68.0	600	7	US-10-750-623-2487	Sequence 2487, Ap	c 239	13.6	68.0	201990	7	US-10-995-561-13303	Sequence 13303, A
c 167	13.6	68.0	600	11	US-11-136-527-5708	Sequence 5708, Ap	c 240	13.6	68.0	214000	7	US-10-769-744-1	Sequence 1, Appli

241	13.6	68.0	214000	11	US-11-096-191-1	Sequence 1, Appli	c 314	13.2	66.0	360	7	US-10-802-796-455	Sequence 455, App
242	13.6	68.0	246960	11	US-11-121-086-8	Sequence 8, Appli	c 315	13.2	66.0	447	7	US-10-802-796-70	Sequence 70, Appl
243	13.6	68.0	403278	7	US-10-995-561-13421	Sequence 13421, A	c 316	13.2	66.0	521	7	US-10-750-185-4188	Sequence 4188, Ap
244	13.6	68.0	415117	9	US-10-995-561-13274	Sequence 13274, A	c 317	13.2	66.0	521	7	US-10-750-623-4188	Sequence 4188, Ap
245	13.4	67.0	19	9	US-11-101-244-686467	Sequence 686467, A	c 318	13.2	66.0	535	11	US-11-128-061-2771	Sequence 2771, Ap
246	13.4	67.0	19	9	US-11-101-244-887504	Sequence 887504, A	c 319	13.2	66.0	535	11	US-11-128-061-6413	Sequence 6413, Ap
247	13.4	67.0	19	10	US-11-083-784-686467	Sequence 686467, A	c 320	13.2	66.0	535	11	US-11-128-049-2771	Sequence 2771, Ap
248	13.4	67.0	19	10	US-11-083-784-887504	Sequence 887504, A	c 321	13.2	66.0	535	11	US-11-128-049-6413	Sequence 6413, Ap
249	13.4	67.0	20	7	US-10-310-914A-1012800	Sequence 1012800, A	c 322	13.2	66.0	580	11	US-11-128-061-1205	Sequence 1205, Ap
250	13.4	67.0	50	11	US-11-175-859-158	Sequence 158, App	c 323	13.2	66.0	580	11	US-11-128-061-4847	Sequence 4847, Ap
251	13.4	67.0	197	8	US-11-021-492-257	Sequence 257, App	c 324	13.2	66.0	580	11	US-11-128-049-1205	Sequence 1205, Ap
252	13.4	67.0	201	7	US-10-995-561-15088	Sequence 15088, A	c 325	13.2	66.0	580	11	US-11-128-049-4847	Sequence 4847, Ap
253	13.4	67.0	600	7	US-10-750-185-4067	Sequence 4067, Ap	c 326	13.2	66.0	581	11	US-11-128-061-187	Sequence 187, App
254	13.4	67.0	600	7	US-10-750-623-4067	Sequence 4067, Ap	c 327	13.2	66.0	581	11	US-11-128-061-3829	Sequence 3829, Ap
255	13.4	67.0	600	11	US-11-136-527-7380	Sequence 7380, Ap	c 328	13.2	66.0	581	11	US-11-128-049-187	Sequence 187, App
256	13.4	67.0	819	7	US-10-858-730-269	Sequence 269, App	c 329	13.2	66.0	581	11	US-11-128-049-3829	Sequence 3829, Ap
257	13.4	67.0	1026	11	US-11-136-527-3284	Sequence 3284, Ap	c 330	13.2	66.0	645	7	US-10-821-234-727	Sequence 727, App
258	13.4	67.0	1059	11	US-11-085-822-33	Sequence 33, Appli	c 331	13.2	66.0	681	11	US-11-120-308-91	Sequence 91, Appl
259	13.4	67.0	1557	7	US-10-750-185-62451	Sequence 62451, A	c 332	13.2	66.0	704	11	US-11-136-527-3966	Sequence 3966, Ap
260	13.4	67.0	1557	7	US-10-750-623-62451	Sequence 62451, A	c 333	13.2	66.0	732	7	US-10-467-657-2637	Sequence 2637, Ap
261	13.4	67.0	1630	7	US-10-750-185-56218	Sequence 56218, A	c 334	13.2	66.0	786	6	US-10-724-598-23	Sequence 23, Appl
262	13.4	67.0	1630	7	US-10-750-623-56218	Sequence 56218, A	c 335	13.2	66.0	862	7	US-10-750-185-57899	Sequence 57899, A
263	13.4	67.0	1640	7	US-10-750-185-62907	Sequence 62907, A	c 336	13.2	66.0	862	7	US-10-750-623-57899	Sequence 57899, A
264	13.4	67.0	1640	7	US-10-750-623-62907	Sequence 62907, A	c 337	13.2	66.0	886	11	US-11-000-463-644	Sequence 644, App
265	13.4	67.0	1729	7	US-10-750-185-39036	Sequence 39036, A	c 338	13.2	66.0	1005	11	US-11-000-463-172	Sequence 172, App
266	13.4	67.0	1729	7	US-10-750-623-39036	Sequence 39036, A	c 339	13.2	66.0	1017	7	US-10-750-185-34253	Sequence 34253, A
267	13.4	67.0	3416	11	US-11-000-688-130	Sequence 130, App	c 340	13.2	66.0	1017	7	US-10-750-623-34253	Sequence 34253, A
268	13.4	67.0	3417	11	US-11-136-527-2858	Sequence 2858, Ap	c 341	13.2	66.0	1021	7	US-10-750-185-32343	Sequence 32343, A
269	13.4	67.0	3621	7	US-10-858-730-144	Sequence 144, App	c 342	13.2	66.0	1021	7	US-10-750-623-32343	Sequence 32343, A
270	13.4	67.0	7239	11	US-11-124-367A-1	Sequence 1, Appli	c 343	13.2	66.0	1035	7	US-10-750-185-56691	Sequence 56691, A
271	13.4	67.0	16700	11	US-11-124-367A-5025	Sequence 5025, Ap	c 344	13.2	66.0	1038	7	US-10-750-623-56691	Sequence 56691, A
272	13.4	67.0	209822	7	US-10-995-561-13198	Sequence 13198, A	c 345	13.2	66.0	1038	7	US-10-750-185-31083	Sequence 31083, A
273	13.4	67.0	215308	11	US-11-121-086-77	Sequence 77, Appl	c 346	13.2	66.0	1038	7	US-10-750-623-31083	Sequence 31083, A
274	13.4	67.0	645179	7	US-10-995-561-13293	Sequence 13293, A	c 347	13.2	66.0	1167	11	US-11-136-527-2156	Sequence 2156, App
275	13.2	66.0	18	7	US-10-310-914A-522856	Sequence 522856, A	c 348	13.2	66.0	1185	7	US-10-858-730-256	Sequence 256, App
276	13.2	66.0	19	7	US-10-310-914A-161303	Sequence 161303, A	c 349	13.2	66.0	1210	7	US-10-750-185-43180	Sequence 43180, A
277	13.2	66.0	19	9	US-11-101-244-503460	Sequence 503460, A	c 350	13.2	66.0	1210	7	US-10-750-623-43180	Sequence 43180, A
278	13.2	66.0	19	9	US-11-101-244-1411708	Sequence 1411708, A	c 351	13.2	66.0	1247	7	US-10-750-185-34648	Sequence 34648, A
279	13.2	66.0	19	9	US-11-101-244-1411817	Sequence 1411817, A	c 352	13.2	66.0	1247	7	US-10-750-623-34648	Sequence 34648, A
280	13.2	66.0	19	10	US-11-083-784-503460	Sequence 503460, A	c 353	13.2	66.0	1389	7	US-10-750-185-41211	Sequence 41211, A
281	13.2	66.0	19	10	US-11-083-784-1411708	Sequence 1411708, A	c 354	13.2	66.0	1389	7	US-10-750-623-41211	Sequence 41211, A
282	13.2	66.0	19	10	US-11-083-784-1411817	Sequence 1411817, A	c 355	13.2	66.0	1464	7	US-10-750-185-37945	Sequence 37945, A
283	13.2	66.0	20	7	US-10-310-914A-286964	Sequence 286964, A	c 356	13.2	66.0	1464	7	US-10-750-623-37945	Sequence 37945, A
284	13.2	66.0	21	7	US-10-310-914A-286964	Sequence 286964, A	c 357	13.2	66.0	1517	7	US-10-750-185-24833	Sequence 24833, A
285	13.2	66.0	21	7	US-10-310-914A-966901	Sequence 966901, A	c 358	13.2	66.0	1517	7	US-10-750-623-24833	Sequence 24833, A
286	13.2	66.0	24	7	US-10-310-914A-504174	Sequence 504174, A	c 359	13.2	66.0	1658	7	US-10-750-185-46138	Sequence 46138, A
287	13.2	66.0	24	7	US-10-310-914A-522857	Sequence 522857, A	c 360	13.2	66.0	1658	7	US-10-750-623-46138	Sequence 46138, A
288	13.2	66.0	25	11	US-11-121-849-146932	Sequence 146932, A	c 361	13.2	66.0	1671	7	US-10-750-185-50711	Sequence 50711, A
289	13.2	66.0	25	11	US-11-121-849-146932	Sequence 146932, A	c 362	13.2	66.0	1671	7	US-10-750-623-50711	Sequence 50711, A
290	13.2	66.0	25	11	US-11-121-849-146934	Sequence 146934, A	c 363	13.2	66.0	1735	7	US-10-510-386-109	Sequence 109, App
291	13.2	66.0	25	11	US-11-121-849-146935	Sequence 146935, A	c 364	13.2	66.0	1735	7	US-10-750-185-60708	Sequence 60708, A
292	13.2	66.0	25	11	US-11-121-849-146936	Sequence 146936, A	c 365	13.2	66.0	1765	7	US-10-750-623-60708	Sequence 60708, A
293	13.2	66.0	25	11	US-11-121-849-146937	Sequence 146937, A	c 366	13.2	66.0	2088	11	US-11-242-243-3	Sequence 3, Appli
294	13.2	66.0	25	11	US-11-121-849-147583	Sequence 147583, A	c 367	13.2	66.0	2133	8	US-11-072-512-1791	Sequence 1791, Ap
295	13.2	66.0	25	11	US-11-121-849-479780	Sequence 479780, A	c 368	13.2	66.0	2234	7	US-10-750-185-37919	Sequence 37919, A
296	13.2	66.0	25	11	US-11-121-849-481152	Sequence 481152, A	c 369	13.2	66.0	2234	7	US-10-750-623-37919	Sequence 37919, A
297	13.2	66.0	25	11	US-11-121-849-490808	Sequence 490808, A	c 370	13.2	66.0	2250	11	US-11-136-527-2013	Sequence 2013, Ap
298	13.2	66.0	26	7	US-10-310-914A-966887	Sequence 966887, A	c 371	13.2	66.0	2337	7	US-10-750-185-57687	Sequence 57687, A
299	13.2	66.0	62	7	US-10-310-914A-5274	Sequence 5274, Ap	c 372	13.2	66.0	2337	7	US-10-750-623-57687	Sequence 57687, A
300	13.2	66.0	62	7	US-10-310-914A-14183	Sequence 14183, A	c 373	13.2	66.0	2340	10	US-11-082-389-93	Sequence 93, Appl
301	13.2	66.0	62	7	US-10-310-914A-16511	Sequence 16511, A	c 374	13.2	66.0	2357	11	US-11-000-688-845	Sequence 845, App
302	13.2	66.0	62	7	US-10-310-914A-18766	Sequence 18766, A	c 375	13.2	66.0	2403	7	US-10-955-054A-72	Sequence 72, Appl
303	13.2	66.0	64	7	US-10-310-914A-15556	Sequence 15556, A	c 376	13.2	66.0	2691	7	US-10-750-185-61757	Sequence 61757, A
304	13.2	66.0	64	7	US-10-310-914A-17126	Sequence 17126, A	c 377	13.2	66.0	2691	7	US-10-750-623-61757	Sequence 61757, A
305	13.2	66.0	201	7	US-10-995-561-15335	Sequence 15335, A	c 378	13.2	66.0	2809	11	US-11-128-061-1121	Sequence 1121, Ap
306	13.2	66.0	201	7	US-10-995-561-64622	Sequence 64622, A	c 379	13.2	66.0	2809	11	US-11-128-049-1121	Sequence 1121, Ap
307	13.2	66.0	201	7	US-10-995-561-62251	Sequence 62251, A	c 380	13.2	66.0	2816	7	US-10-623-155-333	Sequence 333, App
308	13.2	66.0	201	7	US-10-995-561-63541	Sequence 63541, A	c 381	13.2	66.0	2910	11	US-11-000-688-628	Sequence 628, App
309	13.2	66.0	201	11	US-11-124-368A-10353	Sequence 10353, A	c 382	13.2	66.0	2985	7	US-10-750-185-43750	Sequence 43750, A
310	13.2	66.0	201	11	US-11-124-368A-5933	Sequence 5933, Ap	c 383	13.2	66.0	2985	7	US-10-750-623-43750	Sequence 43750, A
311	13.2	66.0	270	7	US-10-467-657-4373	Sequence 4373, Ap	c 384	13.2	66.0	3058	11	US-11-136-527-2498	Sequence 2498, Ap
312	13.2	66.0	351	11	US-11-234-786-361	Sequence 361, App	c 385	13.2	66.0	3119	7	US-10-750-185-52429	Sequence 52429, A
313	13.2	66.0	353	8	US-11-021-492-81	Sequence 81, Appl	c 386	13.2	66.0	3119	7	US-10-750-623-52429	Sequence 52429, A

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 716.686 Seconds
(without alignments)
1586.285 Million cell updates/sec

Title: US-10-805-973-4

Perfect score: 20
Sequence: 1 gtgctgctatgacccaag 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

GenEmbl.*

1: gb_ba.*

2: gb_in.*

3: gb_env.*

4: gb_on.*

5: gb_ov.*

6: gb_pat.*

7: gb_ph.*

8: gb_pr.*

9: gb_ro.*

10: gb_sts.*

11: gb_sy.*

12: gb_un.*

13: gb_vi.*

14: gb_htg.*

15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	95.0	92741	15	AP004473 Lotus cor
2	18.4	92.0	352	15	AK058963 Oryza sat
3	18.4	92.0	370	6	AX705264 Sequence
4	18.4	92.0	617	15	AX273827 Triticum
5	18.4	92.0	1524	6	AX705275 Sequence
6	18.4	92.0	1524	6	AX705276 Sequence
7	18.4	92.0	1524	6	AX705277 Sequence
8	18.4	92.0	1524	6	AX705305 Sequence
9	18.4	92.0	1626	15	AF059600 Hordeum v
10	18.4	92.0	1674	6	AX705285 Sequence
11	18.4	92.0	1674	6	AX705291 Sequence
12	18.4	92.0	1674	6	AX705295 Sequence
13	18.4	92.0	1674	6	AX705297 Sequence
14	18.4	92.0	1674	6	AX705299 Sequence
15	18.4	92.0	1674	6	AX705303 Sequence
16	18.4	92.0	1710	6	CQ969938 Sequence
17	18.4	92.0	1723	6	CQ969920 Sequence
18	18.4	92.0	1756	6	CQ969924 Sequence

19	18.4	92.0	1768	6	CQ969922 Sequence
20	18.4	92.0	1788	6	CQ969926 Sequence
21	18.4	92.0	1788	6	CQ969928 Sequence
22	18.4	92.0	1788	6	CQ969929 Sequence
23	18.4	92.0	1788	6	CQ969930 Sequence
24	18.4	92.0	1788	6	CQ969931 Sequence
25	18.4	92.0	1788	6	CQ969932 Sequence
26	18.4	92.0	1788	6	CQ969934 Sequence
27	18.4	92.0	1788	6	CQ969936 Sequence
28	18.4	92.0	1797	15	AY210405 Triticum
29	18.4	92.0	1797	15	AY210406 Triticum
30	18.4	92.0	1916	6	CS052502 Sequence
31	18.4	92.0	1925	6	CS052500 Sequence
32	18.4	92.0	1935	6	AX705283 Sequence
33	18.4	92.0	1936	6	CS052508 Sequence
34	18.4	92.0	1940	6	CS052498 Sequence
35	18.4	92.0	1956	6	CS052506 Sequence
36	18.4	92.0	1986	6	CS052504 Sequence
37	18.4	92.0	1986	6	AX300485 Sequence
38	18.4	92.0	2251	15	AY885673 Oryza sat
39	18.4	92.0	2286	15	AY885674 Oryza sat
40	18.4	92.0	2301	6	AX300473 Sequence
41	18.4	92.0	2301	15	AB049822 Oryza sat
42	18.4	92.0	110000	15	AP008208_183 Continuation (184
43	18.4	92.0	145423	15	AP005841 Oryza sat
44	18.4	92.0	153252	15	AP004861 Oryza sat
45	17.4	87.0	121	6	AX323931 Sequence
46	17.4	87.0	121	6	AX323932 Sequence
47	17.4	87.0	121	6	AX323971 Sequence
48	17.4	87.0	121	6	AX323972 Sequence
49	17.4	87.0	121	6	AX324115 Sequence
50	17.4	87.0	121	6	AX324116 Sequence
51	17.4	87.0	182	6	AX300481 Sequence
52	17.4	87.0	182	6	AX300483 Sequence
53	17.4	87.0	188	6	AX300484 Sequence
54	17.4	87.0	208	6	AX300480 Sequence
55	17.4	87.0	208	6	AX300482 Sequence
56	17.4	87.0	370	6	AX705263 Sequence
57	17.4	87.0	370	6	AX705265 Sequence
58	17.4	87.0	528	6	AX300487 Sequence
59	17.4	87.0	575	6	CQ969918 Sequence
60	17.4	87.0	1095	6	AX300472 Sequence
61	17.4	87.0	1672	6	AX705273 Sequence
62	17.4	87.0	1674	6	AX705287 Sequence
63	17.4	87.0	1674	6	AX705289 Sequence
64	17.4	87.0	1674	6	AX705301 Sequence
65	17.4	87.0	1675	6	AX705271 Sequence
66	17.4	87.0	1677	6	AX705293 Sequence
67	17.4	87.0	1788	6	CQ969916 Sequence
68	17.4	87.0	1797	15	AY210407 Triticum
69	17.4	87.0	1797	15	AY210408 Triticum
70	17.4	87.0	1985	6	AX300491 Sequence
71	17.4	87.0	1986	6	AX300489 Sequence
72	17.4	87.0	2233	15	AY885675 Oryza sat
73	17.4	87.0	2279	6	BD169500 A gene co
74	17.4	87.0	2279	6	AX300475 Sequence
75	17.4	87.0	2279	15	AB049823 Oryza sat
76	17.4	87.0	236859	14	AC156185 Bos tauru
77	17.4	87.0	236859	14	AC156185 Bos tauru
78	17.4	87.0	244277	14	AC124874 Rattus no
79	17.4	87.0	250522	14	AC094765 Rattus no
80	17.4	87.0	251941	14	AC105590 Rattus no
81	17.4	87.0	256868	14	AC128811 Rattus no
82	16.8	84.0	362	15	AY124583S2 Amaranthu
83	16.8	84.0	362	15	AY124587 Amaranthu
84	16.8	84.0	362	15	AF484068S2 Amaranthu
85	16.8	84.0	447	15	DQ088148S2 Amaranthu
86	16.8	84.0	507	6	AR101737 Sequence
87	16.8	84.0	507	6	AR437542 Sequence
88	16.8	84.0	675	6	CQ750233 Sequence
89	16.8	84.0	1119	6	BD164875 Novel pol
90	16.8	84.0	1119	6	AX122758 Sequence
91	16.8	84.0	1242	6	AR608618 Sequence

C	92	16.8	84.0	1242	6	AX066269	Sequence	AX066269	Sequence	C	165	15.8	79.0	920	10	BV572327	GS51P6241
	93	16.8	84.0	1995	15	AF310684	Lolium mu	AF310684	Lolium mu		166	15.8	79.0	941	15	AB066005	AB066005 Chordaria
	94	16.8	84.0	2002	15	AF487459	Bromus te	AF487459	Bromus te		167	15.8	79.0	943	8	HUMIGHDI	MS4911 Homo sapien
	95	16.8	84.0	2002	15	AF488771	Bromus te	AF488771	Bromus te		168	15.8	79.0	1086	6	AR670509	AR670509 Sequence
	96	16.8	84.0	2065	15	AF363369	Amaranthu	AF363369	Amaranthu		169	15.8	79.0	1160	1	AF421132	AF421132 Aphaniroz
	97	16.8	84.0	2065	15	AF363370	Amaranthu	AF363370	Amaranthu		170	15.8	79.0	1369	1	NUUPENAZ	XS59635 N.mucosa pe
	98	16.8	84.0	2208	15	AY208852	Mus muscu	AY208852	Mus muscu		C 171	15.8	79.0	1988	5	DQ054840	GAD054840 Gadus mor
	99	16.8	84.0	2784	9	AY208852	Mus muscu	AY208852	Mus muscu		C 172	15.8	79.0	2444	6	CQ729892	CQ729892 Sequence
	100	16.8	84.0	3775	9	BC089380	Mus muscu	BC089380	Mus muscu		C 173	15.8	79.0	2723	8	AY026431	AY026431 Homo sapi
	101	16.8	84.0	5185	9	AK172954	Mus muscu	AK172954	Mus muscu		C 174	15.8	79.0	3201	8	BC033107	BC033107 Homo sapi
	102	16.8	84.0	6288	9	AY423676	Mus muscu	AY423676	Mus muscu		175	15.8	79.0	3284	15	LEU86662	LEU86662 Lycopersico
	103	16.8	84.0	110000	1	BA0008210	294	Continuation (26 o	Continuation (26 o		C 176	15.8	79.0	4938	8	AK126105	AK126105 Homo sapi
	104	16.8	84.0	110000	15	AP008210	294	Continuation (295	Continuation (295		177	15.8	79.0	13785	15	AY062187S1	AY062187 Oryza sat
	105	16.8	84.0	112027	8	AC007006	Homo sapi	AC007006	Homo sapi		C 178	15.8	79.0	20941	2	AY693425	AY693425 Drosophil
	106	16.8	84.0	152908	9	AC130550	Mus muscu	AC130550	Mus muscu		C 179	15.8	79.0	29612	5	AF464190	AF464190 Petromyop
	107	16.8	84.0	158901	9	AC159974	Mus muscu	AC159974	Mus muscu		180	15.8	79.0	37731	8	HSL1D7	Z82173 Human DNA s
	108	16.8	84.0	175476	14	AC145014	Sus scrof	AC145014	Sus scrof		181	15.8	79.0	42550	14	AC131377	AC131377 Lytechinu
	109	16.8	84.0	178870	9	AC107846	Mus muscu	AC107846	Mus muscu		C 182	15.8	79.0	68537	14	AC165882	AC165882 Bos tauru
	110	16.8	84.0	180373	14	AC162815	Bos tauru	AC162815	Bos tauru		183	15.8	79.0	73511	8	HS65A6	Z92546 Human DNA s
	111	16.8	84.0	182854	9	AC140248	Mus muscu	AC140248	Mus muscu		184	15.8	79.0	75171	8	AL512663	AL512663 Human DNA
	112	16.8	84.0	183097	14	AC027638	Homo sapi	AC027638	Homo sapi		185	15.8	79.0	77133	14	AC100563	AC100563 Mus muscu
	113	16.8	84.0	183773	8	AC087284	Homo sapi	AC087284	Homo sapi		186	15.8	79.0	85003	14	AP007322	AP007322 Lotus cor
	114	16.8	84.0	186325	15	OSJUN00188	AL662987	Oryza sat	AL662987 Oryza sat		C 187	15.8	79.0	86358	14	AP003739	AP003739 Oryza sat
	115	16.8	84.0	187727	14	AC064806	Homo sapi	AC064806	Homo sapi		188	15.8	79.0	91013	14	AC098834	AC098834 Oryza sat
	116	16.8	84.0	189650	14	AC149863	Papio anu	AC149863	Papio anu		189	15.8	79.0	105807	15	AC006085	AC006085 Arabidops
	117	16															

C 238	15.8	79.0	141702	15	AP005189	AP005189 Oryza sat
239	15.8	79.0	143109	15	OSJN00224	AL731584 Oryza sat
240	15.8	79.0	146793	6	Q0869876	Q0869876 Sequence
C 241	15.8	79.0	147254	15	OSJN00150	AL662948 Oryza sat
242	15.8	79.0	147254	15	OSJN00150	AL662990 Oryza sat
C 243	15.8	79.0	148347	15	AP005408	AP005408 Oryza sat
C 244	15.8	79.0	149085	15	OSJN00184	AL662982 Oryza sat
C 245	15.8	79.0	149633	8	AC087428	AC087428 Homo sapi
C 246	15.8	79.0	150820	14	AC154053	AC154053 Ictalurus
247	15.8	79.0	151498	8	AC099331	AC099331 Homo sapi
C 248	15.8	79.0	152485	14	AC152170	AC152170 Ornithorh
C 249	15.8	79.0	153214	15	AC121361	AC121361 Oryza sat
C 250	15.8	79.0	153894	15	AP005468	AP005468 Oryza sat
251	15.8	79.0	156641	15	AC158406	AC158406 Oryza sat
C 252	15.8	79.0	156641	15	AC158406	AC158406 Oryza sat
C 253	15.8	79.0	157970	9	AC2121916	AC121916 Mus muscu
C 254	15.8	79.0	158481	5	BX001012	BX001012 Zebrafish
C 255	15.8	79.0	159091	15	AC099043	AC099043 Oryza sat
256	15.8	79.0	159835	14	AC137852	AC137852 Mus muscu
C 257	15.8	79.0	160104	15	AC146893	AC146893 Oryza sat
258	15.8	79.0	160723	9	AC157089	AC157089 Mus muscu
C 259	15.8	79.0	163376	15	OSJN00254	AL731612 Oryza sat
C 260	15.8	79.0	163416	15	AP004732	AP004732 Oryza sat
C 261	15.8	79.0	164142	8	AL358552	AL358552 Human DNA
C 262	15.8	79.0	164174	8	AC104188	AC104188 Homo sapi
C 263	15.8	79.0	165653	8	AL138725	AL138725 Homo sapi
C 264	15.8	79.0	165918	8	AC104185	AC104185 Homo sapi
C 265	15.8	79.0	166475	15	OSJN00031	AL606590 Oryza sat
C 266	15.8	79.0	168285	15	AP005690	AP005690 Oryza sat
267	15.8	79.0	168874	15	AP005738	AP005738 Oryza sat
268	15.8	79.0	168998	8	AC022746	AC022746 Homo sapi
269	15.8	79.0	169500	15	AC115686	AC115686 Oryza sat
270	15.8	79.0	169940	14	AC152790	AC152790 Bos tauru
C 271	15.8	79.0	169943	14	AC148779	AC148779 Salmo sal
C 272	15.8	79.0	171347	8	AC099776	AC099776 Homo sapi
C 273	15.8	79.0	172473	15	AP003634	AP003634 Oryza sat
274	15.8	79.0	172475	9	AC154515	AC154515 Mus muscu
C 275	15.8	79.0	172511	15	AP005688	AP005688 Oryza sat
276	15.8	79.0	175461	15	AC137747	AC137747 Oryza sat
C 277	15.8	79.0	175593	15	OSJN00252	AL731603 Oryza sat
C 278	15.8	79.0	175667	15	AC119147	AC119147 Genomic s
C 279	15.8	79.0	176461	15	AP005924	AP005924 Oryza sat
C 280	15.8	79.0	178363	14	AC148615	AC148615 Ictalurus
281	15.8	79.0	179021	15	OSJN00140	AL662937 Oryza sat
282	15.8	79.0	179328	14	AC142429	AC142429 Rattus no
283	15.8	79.0	179898	15	AP003827	AP003827 Oryza sat
C 284	15.8	79.0	180250	15	AP003621	AP003621 Oryza sat
C 285	15.8	79.0	181079	14	AL355519	AL355519 Homo sapi
C 286	15.8	79.0	181253	8	AC099065	AC099065 Homo sapi
287	15.8	79.0	182064	14	BX537163	BX537163 Danio rer
288	15.8	79.0	182183	14	AC134387	AC134387 Papio anu
289	15.8	79.0	182757	9	AC122484	AC122484 Mus muscu
290	15.8	79.0	184795	14	AC153732	AC153732 Salmo sal
C 291	15.8	79.0	186832	14	AC133739	AC133739 Rattus no
292	15.8	79.0	187003	14	AC023353	AC023353 Homo sapi
293	15.8	79.0	188905	15	AP005773	AP005773 Oryza sat
C 294	15.8	79.0	188905	15	AP005773	AP005773 Oryza sat
C 295	15.8	79.0	190664	14	AC027520	AC027520 Homo sapi
296	15.8	79.0	193068	9	AC134596	AC134596 Mus muscu
297	15.8	79.0	194585	14	AC165383	AC165383 Oryctolag
C 298	15.8	79.0	195652	8	AC093572	AC093572 Pan trogl
C 299	15.8	79.0	196355	8	AC099557	AC099557 Homo sapi
300	15.8	79.0	197424	14	AC148616	AC148616 Salmo sal
C 301	15.8	79.0	198005	9	AC117657	AC117657 Mus muscu
302	15.8	79.0	198481	9	AC155722	AC155722 Mus muscu
303	15.8	79.0	198794	8	AL583825	AL583825 Human DNA
C 304	15.8	79.0	198991	9	AL773548	AL773548 Mouse DNA
305	15.8	79.0	199113	15	AC021892	AC021892 Genomic s
C 306	15.8	79.0	199433	9	AC160051	AC160051 Mus muscu
C 307	15.8	79.0	200248	14	AC145063	AC145063 Pan trogl
C 308	15.8	79.0	202452	14	AC152991	AC152991 Bos tauru
C 309	15.8	79.0	202924	15	OSJN00284	AL731643 Oryza sat
C 310	15.8	79.0	204952	14	AC148618	AC148618 Salmo sal
C 311	15.8	79.0	205414	14	AC164110	AC164110 Mus muscu
312	15.8	79.0	205623	9	AC156837	AC156837 Mus muscu
313	15.8	79.0	205900	9	AC103610	AC103610 Mus muscu
314	15.8	79.0	206612	15	AC146338	AC146338 Oryza sat
315	15.8	79.0	211119	9	AC159819	AC159819 Mus muscu
316	15.8	79.0	211456	9	AL928926	AL928926 Mouse DNA
317	15.8	79.0	214755	14	AC163235	AC163235 Salmo sal
C 318	15.8	79.0	215962	14	AC112905	AC112905 Rattus no
319	15.8	79.0	216841	14	AC161244	AC161244 Mus muscu
C 320	15.8	79.0	221267	9	AC153537	AC153537 Mus muscu
321	15.8	79.0	223764	14	AC103166	AC103166 Rattus no
322	15.8	79.0	223816	5	BX537162	BX537162 Zebrafish
C 323	15.8	79.0	224179	9	AC130219	AC130219 Mus muscu
324	15.8	79.0	227767	14	AC118766	AC118766 Rattus no
C 325	15.8	79.0	231247	14	AC095426	AC095426 Rattus no
326	15.8	79.0	238251	14	AC098340	AC098340 Rattus no
C 327	15.8	79.0	241093	14	AC110135	AC110135 Rattus no
328	15.8	79.0	241778	14	AC095958	AC095958 Rattus no
329	15.8	79.0	244950	14	AC157072	AC157072 Bos tauru
330	15.8	79.0	245462	14	AC106480	AC106480 Rattus no
331	15.8	79.0	245469	14	AC163130	AC163130 Bos tauru
332	15.8	79.0	249722	14	AC118801	AC118801 Rattus no
C 333	15.8	79.0	250599	14	AC113696	AC113696 Rattus no
C 334	15.8	79.0	256749	14	AC103324	AC103324 Rattus no
C 335	15.8	79.0	256620	14	AC111226	AC111226 Rattus no
336	15.8	79.0	278876	14	AC120936	AC120936 Rattus no
337	15.8	79.0	298836	14	AY775952	AY775952 Ictalurus
C 338	15.8	79.0	298836	14	AY775952	AY775952 Ictalurus
C 339	15.8	79.0	300029	15	AE017077	AE017077 Oryza sat
C 340	15.8	79.0	300658	1	AE017313	AE017313 Desulfovi
C 341	15.8	79.0	301235	1	AE016799	AE016799 Vibrio vu
342	15.8	79.0	301278	1	AE015939	AE015939 Clostridi
C 343	15.8	79.0	303506	14	AC114691	AC114691 Rattus no
C 344	15.8	79.0	304110	15	AE017074	AE017074 Oryza sat
C 345	15.8	79.0	322712	14	AC098937	AC098937 Rattus no
C 346	15.8	79.0	348071	1	BX572100	BX572100 Pectinatu
347	15.4	77.0	1266	1	AY659942	AY659942 Prochilatu
C 348	15.4	77.0	1591	9	AP305501	AP305501 Mus muscu
C 349	15.4	77.0	2636	15	AY762116	AY762116 Chlamydom
350	15.4	77.0	9198	2	AJ619741	AJ619741 Nautilus
C 351	15.4	77.0	12591	1	AE007762	AE007762 Clostridi
352	15.4	77.0	44090	14	AC006784	AC006784 Caenorhab
353	15.4	77.0	66626	2	AC006834	AC006834 Caenorhab
354	15.4	77.0	85897	14	AP007920	AP007920 Lotus cor
C 355	15.4	77.0	97773	14	AC139596	AC139596 Rattus no
C 356	15.4	77.0	110000	1	AP006618	AP006618 24
357	15.4	77.0	110000	1	BA000022	BA000022 21
C 358	15.4	77.0	110000	1	BA000040	BA000040 50
C 359	15.4	77.0	110000	1	BA000040	BA000040 79
360	15.4	77.0	110000	14	AC118875	AC118875 2
361	15.4	77.0	110000	15	AP008214	AP008214 204
362	15.4	77.0	110000	15	CR382131	CR382131 12
363	15.4	77.0	110000	15	AE017347	AE017347 11
C 364	15.4	77.0	110000	15	AP008208	AP008208 015
C 365	15.4	77.0	114932	14	AC116344	AC116344 Homo sapi
C 366	15.4	77.0	118733	14	AP003885	AP003885 Oryza sat
C 367	15.4	77.0	125503	15	AP004150	AP004150 Oryza sat
C 368	15.4	77.0	145040	8	AC013471	AC013471 Homo sapi
C 369	15.4	77.0	145514	8	AC099509	AC099509 Homo sapi
370	15.4	77.0	146994	8	AL137245	AL137245 Human DNA
C 371	15.4	77.0	149184	14	AC159925	AC159925 Atelerix
C 372	15.4	77.0	150567	14	AC160584	AC160584 Atelerix
373	15.4	77.0	152973	15	AP004463	AP004463 Oryza sat
374	15.4	77.0	154373	15	AY660566	AY660566 Huperzia
C 375	15.4	77.0	154373	15	AY660566	AY660566 Huperzia
376	15.4	77.0	155219	14	AC141758	AC141758 Apis mell
377	15.4	77.0	157176	8	AC007092	AC007092 Homo sapi
C 378	15.4	77.0	161075	9	AC154796	AC154796 Mus muscu
379	15.4	77.0	163058	8	AL391475	AL391475 Human DNA
380	15.4	77.0	172814	8	AC144521	AC144521 Homo sapi
C 381	15.4	77.0	178314	14	AC144347	AC144347 Homo sapi
C 382	15.4	77.0	181728	14	AC162924	AC162924 Mus muscu
C 383	15.4	77.0	184276	9	AC115917	AC115917 Mus muscu

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 169.231 Seconds
(without alignments)
787.645 Million cell updates/sec

Title: US-10-805-973-4

Perfect score: 20

Sequence: 1 gtgctgctatgatccgaag 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

N_Geneseq_21.*

1: Geneseq1980s.*

2: Geneseq1990s.*

3: Geneseq2000s.*

4: Geneseq2001as.*

5: Geneseq2001bs.*

6: Geneseq2002as.*

7: Geneseq2002bs.*

8: Geneseq2003as.*

9: Geneseq2003bs.*

10: Geneseq2003cs.*

11: Geneseq2003ds.*

12: Geneseq2004as.*

13: Geneseq2004bs.*

14: Geneseq2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	92.0	352	14	AEB65735
2	18.4	92.0	370	8	Acc00301 Wild-type
3	18.4	92.0	1524	10	Adf50207 Wheat Tea
4	18.4	92.0	1524	10	Adf50205 Wheat Tea
5	18.4	92.0	1524	10	Adf50206 Wheat Tea
6	18.4	92.0	1673	10	Adf50216 Wheat Tea
7	18.4	92.0	1673	10	Adf50230 Partial A
8	18.4	92.0	1673	10	Adf50226 Partial A
9	18.4	92.0	1673	10	Adf50228 Partial A
10	18.4	92.0	1674	10	Adf50234 Partial A
11	18.4	92.0	1674	10	Adf50222 Partial A
12	18.4	92.0	1710	14	Adv11376 Imidazol
13	18.4	92.0	1723	14	Adv11358 Imidazol
14	18.4	92.0	1756	14	Adv11362 Imidazol
15	18.4	92.0	1768	14	Adv11360 Imidazol
16	18.4	92.0	1788	14	Adv11372 Durum whe
17	18.4	92.0	1788	14	Adv11366 Durum whe
18	18.4	92.0	1788	14	Adv11368 Durum whe
19	18.4	92.0	1788	14	Adv11364 Durum whe

20	18.4	92.0	1788	14	ADV11369
21	18.4	92.0	1788	14	ADV11367
22	18.4	92.0	1788	14	ADV11370
23	18.4	92.0	1916	14	ADY79260
24	18.4	92.0	1925	14	ADY79258
25	18.4	92.0	1935	10	ADFS0214
26	18.4	92.0	1936	14	ADY79266
27	18.4	92.0	1940	14	ADY79256
28	18.4	92.0	1956	14	ADY79264
29	18.4	92.0	1986	6	ABK14667
30	18.4	92.0	1986	14	ADY79262
31	18.4	92.0	2300	10	ADD42022
32	18.4	92.0	2301	6	ABK14657
33	18.4	92.0	2301	10	ADD42020
34	18	90.0	1788	14	ADV11374
35	17.4	87.0	121	6	ABK24894
36	17.4	87.0	121	6	ABK24750
37	17.4	87.0	121	6	ABK24893
38	17.4	87.0	121	6	ABK24709
39	17.4	87.0	121	6	ABK24710
40	17.4	87.0	121	6	ABK24749
41	17.4	87.0	121	12	ADN43400
42	17.4	87.0	121	12	ADN43401
43	17.4	87.0	121	12	ADN43441
44	17.4	87.0	121	12	ADN43440
45	17.4	87.0	121	12	ADN43584
46	17.4	87.0	121	12	ADN43585
47	17.4	87.0	369	8	ACC00302
48	17.4	87.0	370	8	ACC00300
49	17.4	87.0	411	8	ABZ82272
50	17.4	87.0	498	8	ABZ82274
51	17.4	87.0	509	12	ADO21234
52	17.4	87.0	511	8	ABZ82273
53	17.4	87.0	528	6	ABK14668
54	17.4	87.0	575	12	ADO21236
55	17.4	87.0	575	14	ADV11356
56	17.4	87.0	1095	6	ABK14656
57	17.4	87.0	1672	10	ADFS0203
58	17.4	87.0	1674	10	ADFS0232
59	17.4	87.0	1674	10	ADFS0218
60	17.4	87.0	1674	10	ADFS0220
61	17.4	87.0	1675	10	ADFS0201
62	17.4	87.0	1677	10	ADFS0224
63	17.4	87.0	1788	14	ADV11354
64	17.4	87.0	1985	6	ABK14670
65	17.4	87.0	1986	6	ABK14669
66	17.4	87.0	2279	6	ABK14658
67	17.4	87.0	2279	6	ABN89399
68	17.4	87.0	2294	10	ADD42026
69	17.4	87.0	2294	10	ADD42024
70	16.8	84.0	507	3	AAAS3561
71	16.8	84.0	507	4	AAH26475
72	16.8	84.0	507	6	ABX14174
73	16.8	84.0	507	12	ADN59110
74	16.8	84.0	843	11	ACL28054
75	16.8	84.0	1119	5	AAH67639
76	16.8	84.0	1242	4	AAF71070
77	16.8	84.0	1846	13	ADR23157
78	16.8	84.0	1930	13	ADR23159
79	16.8	84.0	3525	13	ADN59276
80	16.8	84.0	3525	13	ADN59276
81	16.8	84.0	4063	10	ADN59276
82	16.8	84.0	5262	14	ADN59276
83	16.8	84.0	349980	5	AAH68532
84	16	80.0	121	6	ABK24781
85	16	80.0	121	6	ABK24937
86	16	80.0	121	6	ABK24782
87	16	80.0	121	6	ABK24737
88	16	80.0	121	6	ABK24738
89	16	80.0	121	6	ABK24938
90	16	80.0	121	12	ADN43629
91	16	80.0	121	12	ADN43472
92	16	80.0	121	12	ADN43428

Adv11369	Durum whe
Adv11367	Durum whe
Adv11370	Durum whe
Ady79260	DNA encod
Ady79258	DNA encod
Adf50214	Rice ALS/
Ady79266	DNA encod
Ady79256	DNA encod
Ady79264	DNA encod
Abk14667	Rice acet
Ady79262	DNA encod
Adad42022	Rice acet
Abk14657	Rice acet
Adad42020	Rice acet
Adv11374	Durum whe
Abk24894	Glyphosat
Abk24750	Glyphosat
Abk24893	Glyphosat
Abk24709	Glyphosat
Abk24710	Glyphosat
Abk24749	Glyphosat
Adn43400	Mutant ce
Adn43401	Mutant ce
Adn43441	Mutant ce
Adn43440	Mutant ce
Adn43584	Mutant ce
Adn43585	Mutant ce
Acc00302	Consensus
Acc00300	Mutant ac
Abz82272	Acetohydr
Abz82274	Acetohydr
Ado21234	Wheat Bro
Abz82273	Acetohydr
Abk14668	Partial c
Ado21236	Wheat Kri
Adv11356	Imidazol
Abk14656	Rice acet
Adf50203	Partial T
Adf50232	Partial A
Adf50218	Partial A
Adf50220	Partial A
Adf50201	Partial T
Adf50224	Partial A
Adv11354	Imidazol
Abk14670	CDNA enco
Abk14669	CDNA enco
Abk14658	CDNA enco
Abn89399	Rice acet
Add42026	Rice acet
Add42024	Rice acet
Aas3561	Human goo
Aah26475	Adrenal g
Abx14174	Human inc
Adn59110	Human goo
ACL28054	Rice abio
Aah67639	C glutami
Aaf71070	C. glutam
Adr23157	Smooth pi
Adr23159	Smooth pi
Adn59276	Marine th
Adn59276	Biologica
Adn59276	Rat gene
Adn59276	CDNA sequ
Abk24781	C glutami
Abk24937	Glyphosat
Abk24782	Glyphosat
Abk24737	Glyphosat
Abk24738	Glyphosat
Abk24938	Glyphosat
Adn43629	Mutant ce
Adn43472	Mutant ce
Adn43428	Mutant ce

93	16	80.0	121	12	ADN43628	Adn43628 Mutant ce	166	15.2	76.0	1673	13	ADS64116	Ad64116 Bacterial
c 94	16	80.0	121	12	ADN43473	Adn43473 Mutant ce	167	15.2	76.0	1691	4	AAH14781	Aah14781 Human cDN
c 95	16	80.0	121	12	ADN43429	Adn43429 Mutant ce	168	15.2	76.0	1701	6	ABK35062	Abk35062 Human cDN
96	15.8	79.0	84	1	AXN50192	Axn50192 Human imm	169	15.2	76.0	1969	2	AAQ34552	Aaq34552 Herbicide
97	15.8	79.0	84	1	AXN50192	Axn50192 Human imm	170	15.2	76.0	1969	2	AAQ34553	Aaq34553 Herbicide
98	15.8	79.0	84	1	AXN50192	Axn50192 Human imm	171	15.2	76.0	1969	2	AAQ24026	Aav24026 AHAS clon
c 99	15.8	79.0	207	2	AAV19502	Aav19502 Retrovira	172	15.2	76.0	1969	2	AAV24027	Aav24027 AHAS clon
c 100	15.8	79.0	210	2	AAV19503	Aav19503 Retrovira	173	15.2	76.0	1969	6	ABS55709	Ab555709 DNA encod
c 101	15.8	79.0	210	2	AAV19501	Aav19501 Retrovira	174	15.2	76.0	1969	6	ABS55708	Ab555708 DNA encod
c 102	15.8	79.0	210	2	AAV19505	Aav19505 Retrovira	c 175	15.2	76.0	2047	14	ADM16408	Adm16408 Eucalyptu
c 103	15.8	79.0	210	2	AAV19506	Aav19506 Retrovira	176	15.2	76.0	2089	2	AAQ25380	Aaq25380 Sequence
c 104	15.8	79.0	726	11	ADJ11689	Adj11689 Rice DNA	177	15.2	76.0	2141	2	AAQ25382	Aaq25382 Sequence
105	15.8	79.0	1086	3	AAF07487	Aaf07487 Fusarium	178	15.2	76.0	2216	13	ADX09977	Adx09977 Plant ful
106	15.8	79.0	1086	13	ADU51528	Adu51528 Fusarium	c 179	15.2	76.0	2295	13	ADT20215	Adt20215 Plant cDN
107	15.8	79.0	1086	14	ADZ89531	Adz89531 Fusarium	180	15.2	76.0	2300	2	AAH62735	Aah62735 Herbicide
108	15.8	79.0	1476	10	ADZ89531	Adz89531 Fusarium	181	15.2	76.0	2331	9	ADB80968	Adb80968 RING-SH c
c 109	15.8	79.0	2762	9	ACH03834	Ach03834 Human cDN	182	15.2	76.0	2331	10	AAH56224	Aah56224 Human ubi
c 110	15.8	79.0	3169	12	ADK70293	Adk70293 Respirato	183	15.2	76.0	2331	10	ADH73559	Adh73559 Human ubi
c 111	15.8	79.0	3183	10	ADD29599	Add29599 Human tum	184	15.2	76.0	2331	13	ADR89692	Adr89692 Human POS
c 112	15.8	79.0	3201	14	ADZ49676	Adz49676 Human s	185	15.2	76.0	2331	13	ADS34240	Ads34240 POSH prot
113	15.8	79.0	28564	10	ADD47107	Add47107 Rat Gene	186	15.2	76.0	2331	13	ADU77899	Adu77899 Human POS
114	15.8	79.0	28564	10	ADD47113	Add47113 Rat Gene	187	15.2	76.0	2331	13	ADU77899	Adu77899 Human POS
115	15.8	79.0	28564	10	ADD47117	Add47117 Rat Gene	188	15.2	76.0	2331	13	ADU68992	Adu68992 Human ple
116	15.8	79.0	28564	10	ADD47111	Add47111 Rat Gene	189	15.2	76.0	2331	14	ADW87407	Adw87407 Human POS
117	15.8	79.0	28564	10	ADZ83334	Adz83334 Rat Gene	190	15.2	76.0	2331	14	ADZ66424	Adz66424 Human POS
118	15.8	79.0	28564	10	ADZ57550	Adz57550 Rat Gene	191	15.2	76.0	2332	4	AAH15208	Aah15208 Human cDN
119	15.8	79.0	28564	10	ADZ57554	Adz57554 Rat Gene	192	15.2	76.0	2332	9	ADB80970	Adb80970 RING-SH c
120	15.8	79.0	146793	13	ABD332719	Abd332719 Mouse can	193	15.2	76.0	2511	13	ADT41630	Adt41630 Bacterial
c 121	15.2	76.0	41	10	ACF79779	Acf79779 Maize ace	194	15.2	76.0	2522	13	ADS63728	Ads63728 Bacterial
122	15.2	76.0	41	10	ACF79779	Acf79779 Maize ace	195	15.2	76.0	2522	13	ADS63361	Ads63361 Bacterial
123	15.2	76.0	177	10	ADH73588	Adh73588 Human ubi	196	15.2	76.0	2546	2	AAQ03661	Aaq03661 Maize C3
124	15.2	76.0	177	10	ADH73588	Adh73588 Human POS	197	15.2	76.0	2667	9	ADB80966	Adb80966 RING-SH c
125	15.2	76.0	177	13	ADR89721	Adr89721 Human POS	198	15.2	76.0	2667	10	AAH56222	Aah56222 Human ubi
126	15.2	76.0	177	13	ADS34257	Ads34257 POSH prot	199	15.2	76.0	2667	10	ADH73556	Adh73556 Human POS
127	15.2	76.0	177	13	ADU77928	Adu77928 Human POS	200	15.2	76.0	2667	13	ADR89689	Adr89689 Human POS
128	15.2	76.0	177	13	ADU77928	Adu77928 Human POS	201	15.2	76.0	2667	13	ADS34237	Ads34237 POSH prot
129	15.2	76.0	177	13	ADU77928	Adu77928 Human POS	202	15.2	76.0	2667	13	ADT77896	Adt77896 Human POS
130	15.2	76.0	177	13	ADU69015	Adu69015 Human ple	203	15.2	76.0	2667	13	ADU73753	Adu73753 Human POS
131	15.2	76.0	177	14	ADW87420	Adw87420 Human POS	204	15.2	76.0	2667	13	ADU68989	Adu68989 Human ple
132	15.2	76.0	203	12	ADG99377	Adg99377 Kidney di	205	15.2	76.0	2667	14	ADW87404	Adw87404 Human POS
133	15.2	76.0	270	8	AAK53592	Aak53592 Murine ES	206	15.2	76.0	2667	14	ADZ66421	Adz66421 Human POS
c 134	15.2	76.0	289	4	AAK53452	Aak53452 Murine tr	207	15.2	76.0	2667	14	AEA10628	Aea10628 Human POS
135	15.2	76.0	326	12	ADP93981	Adp93981 Cotton ex	208	15.2	76.0	2745	4	ABL28798	AbL28798 Drosophill
136	15.2	76.0	411	5	ADI69205	Adi69205 Human ova	209	15.2	76.0	2967	2	AAQ03659	Aaq03659 Maize C1
137	15.2	76.0	411	5	ADI75552	Adi75552 Human ova	210	15.2	76.0	3251	6	ABN85326	Abn85326 Human cyt
138	15.2	76.0	462	5	ADL40788	Adl40788 Human ova	211	15.2	76.0	3645	6	ABK12769	Abk12769 Mouse cDN
c 139	15.2	76.0	478	13	ACN47100	Acn47100 Cotton pr	212	15.2	76.0	3645	10	ADF72774	Adf72774 Murine va
140	15.2	76.0	490	4	AAZ27077	Aaz27077 cDNA enco	213	15.2	76.0	4075	5	ADL61993	AdL61993 Human ova
141	15.2	76.0	490	4	ABK43851	Abk43851 DNA encod	214	15.2	76.0	5128	9	ADB80967	Adb80967 RING-SH c
142	15.2	76.0	490	10	ADB93255	Adb93255 Human cDN	215	15.2	76.0	5128	10	AAH56223	Aah56223 Human ubi
143	15.2	76.0	490	12	ADI54238	Adi54238 cDNA enco	216	15.2	76.0	5128	10	ADH73558	Adh73558 Human POS
c 144	15.2	76.0	551	13	ACN47084	Acn47084 Cotton pr	217	15.2	76.0	5128	13	ADR89691	Adr89691 Human POS
c 145	15.2	76.0	561	6	ABN71019	Abn71019 Streptoco	218	15.2	76.0	5128	13	ADS34239	Ads34239 POSH prot
146	15.2	76.0	585	4	AAH15197	Aah15197 Human bre	219	15.2	76.0	5128	13	ADT77898	Adt77898 Human POS
147	15.2	76.0	623	13	ACN45888	Acn45888 Cotton pr	220	15.2	76.0	5128	13	ADU73755	Adu73755 Human POS
c 148	15.2	76.0	654	6	ABN69027	Abn69027 Streptoco	221	15.2	76.0	5128	13	ADU68991	Adu68991 Human ple
c 149	15.2	76.0	657	13	ADN83982	Adn83982 Streptoco	222	15.2	76.0	5128	14	ADW87406	Adw87406 Human POS
150	15.2	76.0	681	4	ABL28799	AbL28799 Drosophill	223	15.2	76.0	5205	8	ABX34585	Abx34585 Human mdd
151	15.2	76.0	744	4	AAH24043	Aah24043 Human bre	224	15.2	76.0	5205	8	ABN87810	Abn87810 Human ova
152	15.2	76.0	799	11	ACN85218	Acn85218 Breast ca	225	15.2	76.0	5606	6	ABN87810	Abn87810 Human ova
153	15.2	76.0	799	13	ADZ64880	Adz64880 Plant ful	226	15.2	76.0	6504	13	ADS47030	Ads47030 Bacterial
154	15.2	76.0	1061	13	ADX34278	Adx34278 Plant ful	227	15.2	76.0	6504	13	ACN44420	Acn44420 Mouse gen
155	15.2	76.0	1061	13	ADZ65310	Adz65310 Plant ful	228	15.2	76.0	69000	11	ADZ42274	Adz42274 Mouse can
156	15.2	76.0	1339	3	AAV84343	Aav84343 Mouse neu	c 229	15.2	76.0	76644	12	ADQ97602	Adq97602 Mouse can
157	15.2	76.0	1369	4	ABK43541	Abk43541 DNA encod	230	15.2	76.0	94781	13	ABD32711	Abd32711 Mouse can
158	15.2	76.0	1369	12	ADI53928	Adi53928 cDNA enco	c 231	15.2	76.0	95394	13	ADV87742	Adv87742 Streptoco
159	15.2	76.0	1371	13	ADR27865	Adr27865 Murine VE	c 232	15.2	76.0	95394	13	ADV78995	Adv78995 Streptoco
160	15.2	76.0	1391	4	ADL10123	Adl10123 Mouse Not	c 233	15.2	76.0	110000	4	AAI99682	Aai99682 06
161	15.2	76.0	1391	6	ABL35057	AbL35057 Murine CD	234	15.2	76.0	110000	4	AAI99683	Aai99683 06
162	15.2	76.0	1393	13	ADR27866	Adr27866 Murine VE	c 235	15.2	76.0	110000	6	ABN71527	Abn71527 12
c 163	15.2	76.0	1406	13	ADS49435	Ads49435 Bacterial	c 236	15.2	76.0	110000	12	ADQ97138	AdQ97138 1
164	15.2	76.0	1478	13	ADO83726	Ado83726 Plant ful	c 237	15.2	76.0	110000	12	ADQ97138	AdQ97138 2
165	15.2	76.0	1625	13	ADX60490	Adx60490 Plant ful	c 238	15.2	76.0	110000	13	ADV81204	Adv81204 14

239	15.2	76.0	117829	12	ADQ97319	Human can	Adq97319 Human can	c 312	14.4	72.0	121	6	ABK24722	Glyphosat
240	15.2	76.0	295772	12	ADQ97433	Human can	Adq97433 Human can	313	14.4	72.0	121	12	ADN43416	Mutant ce
c 241	15	75.0	241	24	ABQ09313	Oligonucl	Abq09313 Oligonucl	c 314	14.4	72.0	121	12	ADN43417	Mutant ce
242	15	75.0	24	6	ABQ09272	Oligonucl	Abq09272 Oligonucl	315	14.4	72.0	121	12	ADN43524	Mutant ce
243	15	75.0	24	6	ABQ02698	Oligonucl	Abq02698 Oligonucl	316	14.4	72.0	121	12	ADN43412	Mutant ce
244	15	75.0	1137	6	ABN69483	Streptoco	Abn69483 Streptoco	c 317	14.4	72.0	121	12	ADN43457	Mutant ce
245	15	75.0	1140	13	ADV83770	Streptoco	Adv83770 Streptoco	c 318	14.4	72.0	121	12	ADN43525	Mutant ce
246	15	75.0	2426	2	AAT04542	Bacillus	Aat04542 Bacillus	c 319	14.4	72.0	121	12	ADN43597	Mutant ce
247	15	75.0	2426	2	AAT04542	Bacillus	Aat04542 Bacillus	320	14.4	72.0	121	12	ADN43597	Mutant ce
c 248	15	75.0	12685	13	ADV87700	Streptoco	Adv87700 Streptoco	321	14.4	72.0	121	12	ADN43456	Mutant ce
c 249	15	75.0	12685	13	ADV87700	Streptoco	Adv87700 Streptoco	322	14.4	72.0	121	12	ADN43596	Mutant ce
250	15	75.0	110000	6	ABN71527_00	Streptoco	Abn71527 Streptoco	c 323	14.4	72.0	121	12	ADN43413	Mutant ce
251	15	75.0	110000	6	ADV81204_01	Streptoco	Adv81204 Streptoco	c 324	14.4	72.0	121	12	ADN43413	Mutant ce
252	14.8	74.0	60	13	ADS33973	Continuation (2 of	AdS33973 Continuation (2 of	325	14.4	72.0	267	4	AAH05995	Human cDN
253	14.8	74.0	390	9	ADB10663	Eucalyptu	AdB10663 Eucalyptu	326	14.4	72.0	385	6	ABL83550	Human ova
c 254	14.8	74.0	397	9	ACH20720	Human adu	Ach20720 Human adu	327	14.4	72.0	452	4	AAH19576	Human bre
255	14.8	74.0	557	13	ADQ58536	Novel can	AdQ58536 Novel can	328	14.4	72.0	452	5	AAH84412	DNA encod
256	14.8	74.0	583	13	ADQ50089	Novel can	AdQ50089 Novel can	c 329	14.4	72.0	534	4	AAH01745	Human rep
257	14.8	74.0	656	14	ADW82161	MAP3K9 ma	AdW82161 MAP3K9 ma	c 330	14.4	72.0	534	4	ABL97038	Human tes
c 258	14.8	74.0	698	4	AAH03196	Human cDN	Aah03196 Human cDN	c 331	14.4	72.0	621	13	ADO83776	Plant ful
259	14.8	74.0	786	9	ADA30850	DNA encod	Ada30850 DNA encod	332	14.4	72.0	622	10	ACD92257	Human col
260	14.8	74.0	943	14	ABE67494	Rice geno	Aeb67494 Rice geno	333	14.4	72.0	631	5	ABV01084	Human pro
261	14.8	74.0	978	13	ADT47476	Bacterial	Adt47476 Bacterial	334	14.4	72.0	648	13	ADS59743	Bacterial
262	14.8	74.0	1026	13	ADT47475	Bacterial	Adt47475 Bacterial	335	14.4	72.0	648	13	ADG62762	Bacterial
263	14.8	74.0	1173	9	ADB10665	Alloioococ	AdB10665 Alloioococ	336	14.4	72.0	654	5	ABV10253	Human pro
c 264	14.8	74.0	1329	14	ADV98268	Partial s	Adv98268 Partial s	337	14.4	72.0	676	5	ABV40393	Human pro
c 265	14.8	74.0	1766	2	AAV40277	Rat equil	Aav40277 Rat equil	338	14.4	72.0	676	5	ABV31424	Human pro
c 266	14.8	74.0	1766	10	ADB58642	Toxicity-	AdB58642 Toxicity-	c 339	14.4	72.0	704	3	AAH15215	Trichoder
c 267	14.8	74.0	1766	10	ADB53315	Primary r	AdB53315 Primary r	c 340	14.4	72.0	704	13	ADU59256	Trichoder
c 268	14.8	74.0	1766	13	ADV41445	Rat card	Adv41445 Rat card	c 341	14.4	72.0	704	14	ADZ97259	Trichoder
c 269	14.8	74.0	2075	4	AAH18687	Human cDN	Aah18687 Human cDN	342	14.4	72.0	755	5	AAH75159	Nucleotid
270	14.8	74.0	2118	10	ADG28830	Perennial	AdG28830 Perennial	c 343	14.4	72.0	990	11	ABD03685	Pseudomon
c 271	14.8	74.0	2250	10	ADF92215	Leukaemia	AdF92215 Leukaemia	344	14.4	72.0	1024	10	ABZ83851	Toxicolog
c 272	14.8	74.0	2445	13	ADR87167	Fusobacte	AdR87167 Fusobacte	c 345	14.4	72.0	1059	11	ABD03766	Pseudomon
c 273	14.8	74.0	2817	5	ASB69823	DNA encod	Asb69823 DNA encod	c 346	14.4	72.0	1107	11	ABD03943	Pseudomon
274	14.8	74.0	2978	3	AAH96705	Reporter	Aah96705 Reporter	347	14.4	72.0	1116	6	ABQ90118	M. capsul
275	14.8	74.0	4017	5	ASB79973	DNA encod	Asb79973 DNA encod	348	14.4	72.0	1122	14	ADW98672	Glutamine
c 276	14.8	74.0	4393	10	ASB94495	DNA encod	Asb94495 DNA encod	c 349	14.4	72.0	1185	13	ADT48168	Bacterial
c 277	14.8	74.0	4393	10	ACD96164	Human GPC	AdC96164 Human GPC	350	14.4	72.0	1185	13	ADT48168	Bacterial
c 278	14.8	74.0	57561	11	ACN44600	Mouse gen	Acn44600 Mouse gen	c 351	14.4	72.0	1314	5	AAH67646	C glutami
c 279	14.8	74.0	61635	14	AEA61195	Human DKF	Aea61195 Human DKF	c 352	14.4	72.0	1330	4	AAH71918	Coryneb
c 280	14.8	74.0	61635	14	AEA61208	Human EKI	Aea61208 Human EKI	c 353	14.4	72.0	1330	4	AAH72012	Coryneb
281	14.8	74.0	79731	12	ADQ97640	Mouse can	AdQ97640 Mouse can	c 354	14.4	72.0	1330	4	AAH71905	Coryneb
c 282	14.8	74.0	80815	13	ABD33381	Human can	Abd33381 Human can	c 355	14.4	72.0	1330	4	AAH71755	Coryneb
283	14.8	74.0	105413	12	ADI36512	Human kin	Adi36512 Human kin	c 356	14.4	72.0	1330	4	AAH96078	C. glutam
c 284	14.8	74.0	110000	9	ADBI2064_11	Continuation (12 o	AdBi2064 Continuation (12 o	c 357	14.4	72.0	1366	10	ADJ94843	Novel NOV
c 285	14.8	74.0	110000	11	ADM27081_04	Continuation (5 of	AdM27081 Continuation (5 of	c 358	14.4	72.0	1366	11	AEH866471	Human glu
c 286	14.8	74.0	110000	11	ACN43984_2	Continuation (3 of	Acn43984 Continuation (3 of	c 359	14.4	72.0	1366	13	ADR24858	Breast ca
287	14.8	74.0	110000	14	AEH35723_0	L. pneumo	Aeh35723 L. pneumo	360	14.4	72.0	1419	10	ADB75327	Prostate
c 288	14.8	74.0	122157	14	ADZ13040	Murine ca	AdZ13040 Murine ca	361	14.4	72.0	1448	14	AEH65888	Rice geno
289	14.8	74.0	131885	14	AEH39176	L. pneumo	Aeh39176 L. pneumo	362	14.4	72.0	1459	13	ADS50925	Bacterial
290	14.8	74.0	166181	12	ADQ20461	Human sof	AdQ20461 Human sof	363	14.4	72.0	1467	5	AAH84414	DNA encod
291	14.8	74.0	166181	12	ADQ18633	Human sof	AdQ18633 Human sof	364	14.4	72.0	1470	4	AAH58954	Human pol
292	14.8	74.0	167163	10	ADE82948	Human PVT	AdE82948 Human PVT	365	14.4	72.0	1470	5	ADQ99176	DNA encod
293	14.8	74.0	175338	14	ADV09445	Human ORP	Adv09445 Human ORP	366	14.4	72.0	1470	8	ADH48936	Novel hum
c 294	14.8	74.0	290040	14	ADV16961	Human pro	Adv16961 Human pro	c 367	14.4	72.0	1479	8	ACA45930	Prokaryot
c 295	14.8	74.0	290040	14	ADP62049	Human ROC	Adp62049 Human ROC	c 368	14.4	72.0	1491	4	AAH71904	Coryneb
c 296	14.8	74.0	312477	12	ADP69744	Human ROC	AdP69744 Human ROC	c 369	14.4	72.0	1491	4	AAH71917	Coryneb
c 297	14.4	72.0	41	10	ACF79782	Maize ace	Acf79782 Maize ace	c 370	14.4	72.0	1491	4	AAH71754	Coryneb
298	14.4	72.0	41	10	ACF79780	Maize ace	Acf79780 Maize ace	c 371	14.4	72.0	1491	4	AAH72011	Coryneb
299	14.4	72.0	70	10	ADC36502	Weed cont	Adc36502 Weed cont	c 372	14.4	72.0	1491	4	AAH96077	C. glutam
300	14.4	72.0	96	6	ABL75702	Corn tass	AbL75702 Corn tass	c 373	14.4	72.0	1498	10	ADD13562	C. glutam
301	14.4	72.0	121	6	ABK24725	Glyphosat	Abk24725 Glyphosat	c 374	14.4	72.0	1635	13	ADS58038	Bacterial
c 302	14.4	72.0	121	6	ABK24922	Glyphosat	Abk24922 Glyphosat	375	14.4	72.0	1675	9	ADT57517	Human enz
c 303	14.4	72.0	121	6	ABK24721	Glyphosat	Abk24721 Glyphosat	376	14.4	72.0	1725	12	ADH35388	ENZYM enco
c 304	14.4	72.0	121	6	ABK24834	Glyphosat	Abk24834 Glyphosat	377	14.4	72.0	1759	6	ABK78768	Bacillus
305	14.4	72.0	121	6	ABK24905	Glyphosat	Abk24905 Glyphosat	378	14.4	72.0	1797	10	ADG93746	E. faeciu
306	14.4	72.0	121	6	ABK24921	Glyphosat	Abk24921 Glyphosat	c 379	14.4	72.0	1803	11	ACL26462	Rice abio
307	14.4	72.0	121	6	ABK24765	Glyphosat	Abk24765 Glyphosat	380	14.4	72.0	1926	13	ADS45600	Bacterial
308	14.4	72.0	121	6	ABK24833	Glyphosat	Abk24833 Glyphosat	381	14.4	72.0	1969	2	AAQ34551	Herbicide
c 309	14.4	72.0	121	6	ABK24906	Glyphosat	Abk24906 Glyphosat	382	14.4	72.0	1969	2	AAV24025	ABAS clon
c 310	14.4	72.0	121	6	ABK24766	Glyphosat	Abk24766 Glyphosat	383	14.4	72.0	1969	6	ABS55707	DNA encod
c 311	14.4	72.0	121	6	ABK24726	Glyphosat	Abk24726 Glyphosat	384	14.4	72.0	2000	8	ADA71634	Rice gene

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2470.77 Seconds
(without alignments)
378.725 Million cell updates/sec

Title: US-10-805-973-4

Perfect score: 20

Sequence: 1 gtgtgctatgatccgaag 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:
1: gb_est1.*
2: gb_est2.*
3: gb_est3.*
4: gb_hic.*
5: gb_est4.*
6: gb_est5.*
7: gb_est6.*
8: gb_est7.*
9: gb_gsa1.*
10: gb_gsa2.*
11: gb_gsa3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	92.0	367	5	BQ762109 EBp101.SQ
2	18.4	92.0	420	1	AJ475726 AJ475726
3	18.4	92.0	429	5	BQ72552 HB21P15r
c 4	18.4	92.0	438	1	AU089946 AU089946
5	18.4	92.0	446	5	C28005 C28005
6	18.4	92.0	460	2	BF200418 BFB200418
7	18.4	92.0	462	8	CK629678 CK629678
8	18.4	92.0	463	1	AU172494 AU172494
9	18.4	92.0	485	6	CA721426 CA721426
c 10	18.4	92.0	492	6	CA741112 CA741112
11	18.4	92.0	517	5	CA012924 CA012924
12	18.4	92.0	526	1	AJ610886 AJ610886
c 13	18.4	92.0	528	1	AV942818 AV942818
14	18.4	92.0	530	2	BE417248 BE417248
15	18.4	92.0	536	6	CA735255 CA735255
c 16	18.4	92.0	543	5	BU985874 BU985874
c 17	18.4	92.0	554	7	CK036599 CK036599
c 18	18.4	92.0	559	8	CA102310 CA102310
c 19	18.4	92.0	560	6	CK735522 CK735522
c 20	18.4	92.0	568	5	CA001228 CA001228
c 21	18.4	92.0	568	5	CA001528 CA001528
c 22	18.4	92.0	593	3	BJ218387 BJ218387

CK040671	39485rbic	601	7	CK040671	18.4	92.0
CK037714	39537rbic	613	7	CK037714	18.4	92.0
BU989646	HF22F02r	614	5	BU989646	18.4	92.0
AV936190	AV936190	615	1	AV936190	18.4	92.0
CV057250	AV9125f6	615	7	CV057250	18.4	92.0
CB656902	OSJNEC11M	617	6	CB656902	18.4	92.0
BJ468205	BJ468205	620	3	BJ468205	18.4	92.0
CV058653	BNELJ3D12	623	7	CV058653	18.4	92.0
BG905270	TaLx1138E	664	2	BG905270	18.4	92.0
BJ296872	BJ296872	670	3	BJ296872	18.4	92.0
BJ465087	BJ465087	672	3	BJ465087	18.4	92.0
DNI79803	HO28K09S	674	8	DNI79803	18.4	92.0
AV945607	AV945607	678	1	AV945607	18.4	92.0
BN137990	WHE0479 A	696	3	BN137990	18.4	92.0
DNI86674	HO28K09W	700	8	DNI86674	18.4	92.0
AU162002	AU162002	706	1	AU162002	18.4	92.0
CB630252	OSIIEB07B	708	6	CB630252	18.4	92.0
CD453275	WHE1817-1	721	6	CD453275	18.4	92.0
BJ220643	BJ220643	727	3	BJ220643	18.4	92.0
CB683493	OSJNEF11P	816	6	CB683493	18.4	92.0
CZ671547	OM_Ba022	855	10	CZ671547	18.4	92.0
CK155817	FGAS03668	879	7	CK155817	18.4	92.0
CK156269	FGAS03720	879	7	CK156269	18.4	92.0
CK157744	FGAS03890	894	7	CK157744	18.4	92.0
CZ134246	OA_BBa002	897	10	CZ134246	18.4	92.0
CK158704	FGAS03999	906	7	CK158704	18.4	92.0
CK166638	FGAS05080	1147	7	CK166638	18.4	92.0
CK167615	FGAS05201	1149	7	CK167615	18.4	92.0
CK167307	FGAS05163	1160	7	CK167307	18.4	92.0
CK168204	FGAS05270	1198	7	CK168204	18.4	92.0
CL967368	ObIFCC039	1935	10	CL967368	18.4	92.0
AV934678	AV934678	273	1	AV934678	18.4	92.0
CZ015728	CH240_512	344	10	CZ015728	17.4	87.0
CA703794	wk1c_EkO	396	6	CA703794	17.4	87.0
AU089907	AU089907	443	1	AU089907	17.4	87.0
CA380041	659258 NC	605	6	CA380041	17.4	87.0
BX299129	BX299129	629	5	BX299129	17.4	87.0
BX299130	BX299130	630	5	BX299130	17.4	87.0
CA350697	621554 NC	672	6	CA350697	17.4	87.0
CA344872	675353 NC	683	6	CA344872	17.4	87.0
BX321023	BX321023	689	5	BX321023	17.4	87.0
CR369478	CR369478	717	7	CR369478	17.4	87.0
BX867147	BX867147	732	5	BX867147	17.4	87.0
CK723145	1330518 N	734	5	CK723145	17.4	87.0
BX321024	BX321024	739	5	BX321024	17.4	87.0
DN738638	CNB59-G08	1178	8	DN738638	17.4	87.0
DN731149	CNB56-H08	1217	8	DN731149	17.4	87.0
DN738639	CNB59-G08	1315	8	DN738639	17.4	87.0
DN731150	CNB56-H08	1346	8	DN731150	17.4	87.0
BQ910219	QHA13119	792	5	BQ910219	17	85.0
BY300574	BY300574	364	5	BY300574	16.8	84.0
CE571246	tigr-988-	386	10	CE571246	16.8	84.0
CN820002	HRO4409_G	570	7	CN820002	16.8	84.0
AY915222	Sch1st080	576	4	AY915222	16.8	84.0
CV741292	SJAL_032	576	7	CV741292	16.8	84.0
CV741365	SJAL_032	576	7	CV741365	16.8	84.0
AT004936	AT004936	582	1	AT004936	16.8	84.0
AG917408	Drosoph11	588	10	AG917408	16.8	84.0
CF742855	UI-M-H80-	591	6	CF742855	16.8	84.0
CN010201	WHE3867 H	613	7	CN010201	16.8	84.0
CO381349	FRA0878 S	624	7	CO381349	16.8	84.0
CA215664	SCR1AD114	653	6	CA215664	16.8	84.0
USDA-PP 1	USDA-PP 1	672	8	USDA-PP 1	16.8	84.0
FM500-006	FM500-006	676	8	FM500-006	16.8	84.0
BY756143	BY756143	701	5	BY756143	16.8	84.0
CA074490	SCZEM108	727	6	CA074490	16.8	84.0
CL748539	OR_BBa011	727	10	CL748539	16.8	84.0
CO024992	EST803376	731	7	CO024992	16.8	84.0
CA213596	SCOGS8114	766	6	CA213596	16.8	84.0
HR04407 H	HR04407 H	780	7	HR04407 H	16.8	84.0
CZ694312	OC_Ba000	820	10	CZ694312	16.8	84.0
CL970277	ObIFCC041	843	10	CL970277	16.8	84.0
CV292554	aof01-5m8	898	7	CV292554	16.8	84.0

c 96	16.8	84.0	900	7	CN158761	CN158761 947573 MA	169	15.8	79.0	515	1	AV834751	AV834751 AV834751
c 97	16.8	84.0	910	7	CV2911176	CV2911176 aof01-7me	170	15.8	79.0	519	3	BJ201556	BJ201556 BJ201556
c 98	16.8	84.0	931	7	CV2903995	CV2903995 aof01-16m	171	15.8	79.0	522	9	AQ915065	AQ915065 nbe00051A
c 99	16.8	84.0	3525	4	AK047897	AK047897 Mus muscu	c 172	15.8	79.0	523	8	DR062316	DR062316 iql5d03.9
c 100	16.8	84.0	3585	4	AK050542	AK050542 Mus muscu	c 173	15.8	79.0	531	11	DE124137	DE124137 Oryzias 1
c 101	16.8	84.0	3999	4	BC019133	BC019133 Mus muscu	c 174	15.8	79.0	532	2	BF615603	BF615603 de83f06.x
c 102	16.8	84.0	4614	4	AK083696	AK083696 Mus muscu	c 175	15.8	79.0	533	6	CB090293	CB090293 gp37c06.g
c 103	16.4	82.0	226	10	EX891388	EX891388 Arabidops	c 176	15.8	79.0	536	10	CW460792	CW460792 fbb0001f2
c 104	16.4	82.0	306	10	EX891387	EX891387 Arabidops	c 177	15.8	79.0	543	3	BJ912919	BJ912919 BJ912919
c 105	16.4	82.0	323	9	CC456802	CC456802 SALK 1006	c 178	15.8	79.0	552	6	CB091437	CB091437 he92d02.g
c 106	16.4	82.0	394	11	CR404044	CR404044 Arabidops	c 179	15.8	79.0	553	5	EX490220	EX490220 DKF2p6861
c 107	16.4	82.0	412	8	H71252	H71252 yel12h12.sl	c 180	15.8	79.0	556	5	BQ595339	BQ595339 S015252-0
c 108	16.4	82.0	416	9	CC329951	CC329951 OGRAN36TV	c 181	15.8	79.0	557	3	BM438468	BM438468 Iplv0208
c 109	16.4	82.0	425	3	BP816087	BP816087 BP816087	c 182	15.8	79.0	563	9	AQ256852	AQ256852 nbx0016P
c 110	16.4	82.0	430	10	CG177440	CG177440 PUGW60TD	c 183	15.8	79.0	564	11	DE033096	DE033096 Oryzias 1
c 111	16.4	82.0	497	11	CR404043	CR404043 Arabidops	c 184	15.8	79.0	565	1	AA647312	AA647312 v991b007.r
c 112	16.4	82.0	498	10	CW455843	CW455843 fbb001f2	c 185	15.8	79.0	574	3	BJ490188	BJ490188 BJ490188
c 113	16.4	82.0	526	6	CA646258	CA646258 wre1n.pk0	c 186	15.8	79.0	576	6	CB089581	CB089581 9p26a10.g
c 114	16.4	82.0	615	10	CL384099	CL384099 RPCI44.32	c 187	15.8	79.0	576	6	CD629738	CD629738 56085666J
c 115	16.4	82.0	617	9	AZ643157	AZ643157 1M05068T0	c 188	15.8	79.0	576	8	DN163186	DN163186 SGP269166
c 116	16.4	82.0	632	7	CO016307	CO016307 EST786689	c 189	15.8	79.0	579	7	CN308409	CN308409 170005328
c 117	16.4	82.0	649	10	CW456478	CW456478 fbb001f2	c 190	15.8	79.0	582	11	DE032242	DE032242 Oryzias 1
c 118	16.4	82.0	691	10	CW456479	CW456479 fbb001f2	c 191	15.8	79.0	583	7	CK883241	CK883241 SGPI167087
c 119	16.4	82.0	724	6	CF763424	CF763424 CES005965	c 192	15.8	79.0	584	10	CL766640	CL766640 OR_BBA013
c 120	16.4	82.0	753	5	BX918202	BX918202 BX918202	c 193	15.8	79.0	585	6	CB090890	CB090890 9y81q06.g
c 121	16.4	82.0	804	9	CC406482	CC406482 FUEKF63TD	c 194	15.8	79.0	585	6	CD056323	CD056323 H011004S
c 122	16.4	82.0	803	6	CF816898	CF816898 EST694280	c 195	15.8	79.0	597	11	DE073573	DE073573 Oryzias 1
c 123	16.4	82.0	810	10	CG096767	CG096767 PUIDV33TB	c 196	15.8	79.0	598	9	AZ868948	AZ868948 2M0180C23
c 124	16.4	82.0	896	10	CZ331036	CZ331036 ZMMBF0038	c 197	15.8	79.0	603	6	CA063583	CA063583 9sarl9b50
c 125	16.4	82.0	923	7	CO020130	CO020130 EST816223	c 198	15.8	79.0	604	2	BF798192	BF798192 RC3-C1004
c 126	16.4	82.0	936	9	CG694348	CG694348 AGVQ70HT	c 199	15.8	79.0	608	9	BH527432	BH527432 BOHLX15TR
c 127	16.4	82.0	1148	5	BUS12574	BUS12574 AGENCOURT	c 200	15.8	79.0	613	10	CW616383	CW616383 OA_ABA016
c 128	16.4	82.0	294	7	CV039261	CV039261 4136598 B	c 201	15.8	79.0	620	3	BJ608788	BJ608788 OR_BBA010
c 129	16.8	80.0	507	1	AW202598	AW202598 f1j9d06.y	c 202	15.8	79.0	622	10	CL811872	CL811872 OR_CBA002
c 130	16.8	80.0	521	3	BI813072	BI813072 I003G07 O	c 203	15.8	79.0	624	10	CL721404	CL721404 OR_BBA004
c 131	16.8	80.0	709	1	AU056647	AU056647 AU056647	c 204	15.8	79.0	624	1	AL664716	AL664716 AL664716
c 132	16.8	80.0	717	10	CZ134481	CZ134481 OA_BBA002	c 205	15.8	79.0	629	11	DE083091	DE083091 Oryzias 1
c 133	16.8	80.0	714	7	CL838248	CL838248 OR_CBA006	c 206	15.8	79.0	631	3	BJ886471	BJ886471 BJ886471
c 134	16.8	80.0	744	7	CO123350	CO123350 GR_Eb05C	c 207	15.8	79.0	631	11	CR865369	CR865369 Sub scrof
c 135	15.8	79.0	239	6	CB089499	CB089499 gp24e05.g	c 208	15.8	79.0	631	11	DE064869	DE064869 Oryzias 1
c 136	15.8	79.0	259	8	DR109369	DR109369 81847.127	c 209	15.8	79.0	632	3	BJ527940	BJ527940 BJ527940
c 137	15.8	79.0	269	1	AA211329	AA211329 2p44g05.r	c 210	15.8	79.0	632	11	DE056944	DE056944 Oryzias 1
c 138	15.8	79.0	313	7	CK125179	CK125179 BES182410	c 211	15.8	79.0	638	3	BQ196324	BQ196324 UI-R-DQ1-
c 139	15.8	79.0	328	2	BF061906	BF061906 7k68g05.x	c 212	15.8	79.0	641	6	CD629719	CD629719 56028535H
c 140	15.8	79.0	341	5	CA049658	CA049658 9salkspb0	c 213	15.8	79.0	641	6	CA379591	CA379591 658711 NC
c 141	15.8	79.0	343	6	CB089767	CB089767 gp28e09.g	c 214	15.8	79.0	643	3	CA379591	CA379591 658711 NC
c 142	15.8	79.0	343	10	CL787922	CL787922 OR_BBA010	c 215	15.8	79.0	644	11	DE088631	DE088631 Oryzias 1
c 143	15.8	79.0	345	9	AZ134614	AZ134614 OSUNBB011	c 216	15.8	79.0	649	3	BJ498459	BJ498459 BJ498459
c 144	15.8	79.0	361	8	DR063138	DR063138 iq26b05.g	c 217	15.8	79.0	649	8	CX257193	CX257193 1310221 N
c 145	15.8	79.0	369	9	AQ080676	AQ080676 CIT-RSP-2	c 218	15.8	79.0	650	6	CD825134	CD825134 BN25.059N
c 146	15.8	79.0	373	11	DE045875	DE045875 Oryzias 1	c 219	15.8	79.0	651	1	AU177188	AU177188 AU177188
c 147	15.8	79.0	375	5	BQ906558	BQ906558 M007G12 O	c 220	15.8	79.0	652	10	CW478716	CW478716 fbb0001f2
c 148	15.8	79.0	393	10	CW419818	CW419818 fbb0001f1	c 221	15.8	79.0	652	11	DE084319	DE084319 Oryzias 1
c 149	15.8	79.0	401	1	AJ663673	AJ663673 AJ663673	c 222	15.8	79.0	655	8	CX662709	CX662709 Sa_nx0.65
c 150	15.8	79.0	416	1	AA611245	AA611245 vn44b10.r	c 223	15.8	79.0	658	3	BJ505394	BJ505394 BJ505394
c 151	15.8	79.0	425	6	CB969690	CB969690 AMGNNUC:M	c 224	15.8	79.0	660	6	CD629740	CD629740 56085690J
c 152	15.8	79.0	426	7	CO947954	CO947954 UNC-P8mm3	c 225	15.8	79.0	663	11	DE055081	DE055081 Oryzias 1
c 153	15.8	79.0	441	10	CL858436	CL858436 OR_CBA008	c 226	15.8	79.0	665	10	CW221795	CW221795 104657.1
c 154	15.8	79.0	447	9	AZ132666	AZ132666 OSUNBB010	c 227	15.8	79.0	665	10	CL612752	CL612752 OR_BBA000
c 155	15.8	79.0	457	6	CB089667	CB089667 gp27b10.g	c 228	15.8	79.0	666	11	DE076424	DE076424 Oryzias 1
c 156	15.8	79.0	458	1	AI156158	AI156158 ue09g10.r	c 229	15.8	79.0	668	5	BQ466022	BQ466022 HT01F17T
c 157	15.8	79.0	460	3	BJ002236	BJ002236 BJ002236	c 230	15.8	79.0	670	3	BJ499846	BJ499846 BJ499846
c 158	15.8	79.0	471	10	CL718675	CL718675 OR_BBA004	c 231	15.8	79.0	670	3	BJ908124	BJ908124 BJ908124
c 159	15.8	79.0	472	1	AM100385	AM100385 sd27a02.y	c 232	15.8	79.0	677	11	DE083544	DE083544 Oryzias 1
c 160	15.8	79.0	477	1	AA753390	AA753390 97BS0346	c 233	15.8	79.0	678	10	CL826971	CL826971 OR_CBA004
c 161	15.8	79.0	486	1	AW099609	AW099609 sd28f03.y	c 234	15.8	79.0	682	8	CV987537	CV987537 IpCGR1.1
c 162	15.8	79.0	493	10	CL722169	CL722169 OR_BBA005	c 235	15.8	79.0	685	10	CL627828	CL627828 OR_BBA002
c 163	15.8	79.0	495	9	BH260881	BH260881 CH210-90H	c 236	15.8	79.0	686	9	AQ795970	AQ795970 nbx00058L
c 164	15.8	79.0	500	2	BG726944	BG726944 sae29b10.	c 237	15.8	79.0	687	2	BE379575	BE379575 601159304
c 165	15.8	79.0	505	4	AY915112	AY915112 Schlsto00	c 238	15.8	79.0	689	10	CL154116	CL154116 104.339.1
c 166	15.8	79.0	507	2	BE346393	BE346393 sp25a09.y	c 239	15.8	79.0	691	6	CD629736	CD629736 56085574J
c 167	15.8	79.0	510	1	AI483966	AI483966 EST249837	c 240	15.8	79.0	692	10	CW432637	CW432637 fbb0001f1
c 168	15.8	79.0	513	5	BU712543	BU712543 SJAABBG05	c 241	15.8	79.0	697	3	BP135063	BP135063 BP135063

242	15.8	79.0	700	9	AZ133359	AZ133359 OSUNJB006	315	15.8	79.0	972	10	CL061435	CL061435 CH216-95M
243	15.8	79.0	704	5	BX858799	BX858799 BX858799	C 316	15.8	79.0	1034	5	BU541692	BU541692 AGENCOURT
244	15.8	79.0	716	7	CO097101	CO097101 GR_Ea20M	C 317	15.8	79.0	1038	10	CZ389177	CZ389177 ZMMBP0166
245	15.8	79.0	720	10	CL823408	CL753408 OR_BBa012	C 318	15.8	79.0	1129	8	DN707698	DN707698 CLJ73-A01
246	15.8	79.0	720	10	CL828056	CL828056 OR_BBa004	C 319	15.8	79.0	1216	2	BF383326	BF383326 602044979
247	15.8	79.0	726	10	CL759571	CL769571 OR_BBa014	C 320	15.8	79.0	1300	3	BM909167	BM909167 AGENCOURT
248	15.8	79.0	733	10	AG15645	AG175645 Pan trogl	C 321	15.8	79.0	1325	10	AJ860722	AJ860722 Brassaica
249	15.8	79.0	735	10	CL724983	CL724983 OR_BBa005	C 322	15.8	79.0	1380	10	CL640991	CL640991 CH213-2N1
250	15.8	79.0	739	10	CL762065	CL762065 OR_BBa013	C 323	15.8	79.0	1380	10	CL640991	CL640991 CH213-2N1
251	15.8	79.0	743	10	CL713070	CL713070 OR_BBa003	C 324	15.8	79.0	2393	10	AY420447	AY420447 Homo sapi
252	15.8	79.0	744	10	AG364365	AG364365 Mus muscu	C 325	15.8	79.0	2393	10	AY420448	AY420448 Pan trogl
253	15.8	79.0	746	10	CL796730	CL796730 OR_CBa000	C 326	15.8	79.0	2215	9	AZ925170	AZ925170 4910.ea32
254	15.8	79.0	747	10	CL840578	CL840578 OR_CBa006	C 327	15.8	79.0	328	1	AV610929	AV610929 AV610929
255	15.8	79.0	749	3	BJ665990	BJ665990 BJ665990	C 328	15.8	79.0	370	6	CF181337	CF181337 818151 MA
256	15.8	79.0	750	10	CL916765	CL916765 OA_ABa001	C 329	15.8	79.0	370	6	CF359894	CF359894 821175 MA
257	15.8	79.0	751	10	CL766528	CL766528 OR_BBa013	C 330	15.8	79.0	384	2	BB651494	BB651494 BB651494
258	15.8	79.0	754	10	CL718855	CL718855 OR_BBa004	C 331	15.8	79.0	385	9	AQ138332	AQ138332 HS_3078_A
259	15.8	79.0	764	9	AZ127985	AZ127985 OSUNJB006	C 332	15.8	79.0	435	2	BF073865	BF073865 220905 MA
260	15.8	79.0	767	10	CL813633	CL813633 OR_CBa002	C 333	15.8	79.0	437	2	BE509757	BE509757 946021E07
261	15.8	79.0	769	9	BH727541	BH727541 BOMNLO77R	C 334	15.8	79.0	440	10	CM630418	CM630418 OP_Ba005
262	15.8	79.0	775	6	CD827161	CD827161 BN25.0661	C 335	15.8	79.0	460	5	BQ908062	BQ908062 Q006F10 O
263	15.8	79.0	779	10	CL748251	CL748251 OR_BBa011	C 336	15.8	79.0	481	1	AA858110	AA858110 OF65902.8
264	15.8	79.0	781	10	CM641685	CM641685 OR_ABa017	C 337	15.8	79.0	482	5	BU989965	BU989965 HP23H01r
265	15.8	79.0	781	10	CL730957	CL730957 OR_BBa006	C 338	15.8	79.0	514	2	BI065893	BI065893 pgfin.pk0
266	15.8	79.0	782	10	CL858317	CL858317 OR_CBa008	C 339	15.8	79.0	525	8	DR599473	DR599473 EST989601
267	15.8	79.0	784	8	DT111088	DT111088 JGI_ANN01	C 340	15.8	79.0	526	9	AQ797709	AQ797709 HS_2084_A
268	15.8	79.0	786	9	AQ871349	AQ871349 nbe50043G	C 341	15.8	79.0	530	5	BQ758603	BQ758603 EBna07 SQ
269	15.8	79.0	788	9	CC908104	CC908104 t040i15ba	C 342	15.8	79.0	537	6	CA613955	CA613955 wrl.pk182
270	15.8	79.0	798	10	CL842006	CL842006 OR_CBa007	C 343	15.8	79.0	543	10	CZ911651	CZ911651 4012007D0
271	15.8	79.0	800	7	CO081235	CO081235 GR_Ea45C	C 344	15.8	79.0	571	8	DR623627	DR623627 EST101375
272	15.8	79.0	800	10	CL760494	CL760494 OR_BBa012	C 345	15.8	79.0	597	9	CE196216	CE196216 tigr-g88-
273	15.8	79.0	805	10	CG072057	CG072057 PUKBJ87TD	C 346	15.8	79.0	600	3	BI629312	BI629312 RH58156.5
274	15.8	79.0	812	10	CL736839	CL736839 OR_BBa007	C 347	15.8	79.0	633	6	CF541553	CF541553 AGW81_Ano
275	15.8	79.0	816	1	AJ568775	AJ568775 AJ568775	C 348	15.8	79.0	641	6	CA781113	CA781113 mp1384-7
276	15.8	79.0	816	10	CM706257	CM706257 A1AA-aab4	C 349	15.8	79.0	655	10	AG111843	AG111843 Pan trogl
277	15.8	79.0	816	10	CL753407	CL753407 OR_BBa012	C 350	15.8	79.0	660	8	DR598580	DR598580 EST988709
278	15.8	79.0	819	10	CM620174	CM620174 OA_ABa016	C 351	15.8	79.0	670	10	CZ911679	CZ911679 4012007E0
279	15.8	79.0	820	9	CG632992	CG632992 OGKAZ85TH	C 352	15.8	79.0	672	10	AG047791	AG047791 Pan trogl
280	15.8	79.0	821	2	BG500146	BG500146 602546870	C 353	15.8	79.0	676	6	CF701393	CF701393 CCAC522TR
281	15.8	79.0	821	8	DN872102	DN872102 nad1.7h02.	C 354	15.8	79.0	682	6	CA381176	CA381176 660639 NC
282	15.8	79.0	827	10	CL747653	CL747653 OR_BBa011	C 355	15.8	79.0	686	1	AI125632	AI125632 qd94904.x
283	15.8	79.0	833	10	CZ221869	CZ221869 A1AA-aad5	C 356	15.8	79.0	688	6	CF702472	CF702472 CCAAQ43TR
284	15.8	79.0	840	10	CZ216422	CZ216422 A1AA-aac7	C 357	15.8	79.0	696	10	CZ911338	CZ911338 4012006B0
285	15.8	79.0	841	10	CM978426	CM978426 A1AA-aac3	C 358	15.8	79.0	699	10	CL612292	CL612292 OR_BBa000
286	15.8	79.0	843	7	CO546723	CO546723 LYEST3049	C 359	15.8	79.0	706	7	CV053960	CV053960 BNEL105b3
287	15.8	79.0	848	6	CA454118	CA454118 AGENCOURT	C 360	15.8	79.0	711	7	CK447168	CK447168 N8A8.SP6
288	15.8	79.0	849	10	AG833244	AG833244 Oryza sat	C 361	15.8	79.0	717	10	BX232773	BX232773 Danio rer
289	15.8	79.0	849	10	CL717610	CL717610 OR_BBa004	C 362	15.8	79.0	719	7	CF839148	CF839148 Lr_LC1ED
290	15.8	79.0	851	7	CO486468	CO486468 GQ02011.T	C 363	15.8	79.0	729	10	BX983057	BX983057 Reverse s
291	15.8	79.0	855	7	CO124562	CO124562 GR_EB07I	C 364	15.8	79.0	736	9	AZ762810	AZ762810 1M0558G04
292	15.8	79.0	862	10	CL773795	CL773795 OR_BBa008	C 365	15.8	79.0	744	10	AG574081	AG574081 Mus muscu
293	15.8	79.0	863	10	DU005089	DU005089 300669 To	C 366	15.8	79.0	749	10	AG546169	AG546169 Mus muscu
294	15.8	79.0	867	7	CK451569	CK451569 904758 MA	C 367	15.8	79.0	749	10	CE301888	CE301888 tigr-g88-
295	15.8	79.0	868	9	CC633000	CC633000 OGKAZ85TV	C 368	15.8	79.0	760	3	BJ783636	BJ783636 BJ783636
296	15.8	79.0	879	7	CK464292	CK464292 935261 MA	C 369	15.8	79.0	766	11	CR215355	CR215355 Reverse s
297	15.8	79.0	880	10	CG344239	CG344239 OGKCM59TH	C 370	15.8	79.0	772	6	CF709896	CF709896 CCAC616TR
298	15.8	79.0	883	8	DR952881	DR952881 EST114442	C 371	15.8	79.0	774	3	BJ815391	BJ815391 BJ815391
299	15.8	79.0	887	3	BM043113	BM043113 6031619261	C 372	15.8	79.0	774	7	CO561026	CO561026 AGENCOURT
300	15.8	79.0	887	8	DR928410	DR928410 GR_EB003	C 373	15.8	79.0	776	11	CR097557	CR097557 Forward s
301	15.8	79.0	889	7	CO074062	CO074062 GR_Ea33P	C 374	15.8	79.0	780	7	CO425720	CO425720 UI-M-HU0-
302	15.8	79.0	889	10	AG889407	AG889407 Oryza sat	C 375	15.8	79.0	800	2	BG366284	BG366284 HVSME1000
303	15.8	79.0	896	5	BU542522	BU542522 AGENCOURT	C 376	15.8	79.0	805	9	AZ190120	AZ190120 SP_1016_A
304	15.8	79.0	907	10	AG869318	AG869318 Oryza sat	C 377	15.8	79.0	806	8	DR649474	DR649474 EST103959
305	15.8	79.0	913	7	CK408358	CK408358 AUF_Iflvr	C 378	15.8	79.0	812	5	BX075569	BX075569 BX075569
306	15.8	79.0	915	7	CO107527	CO107527 GR_EB003	C 379	15.8	79.0	815	9	CC635372	CC635372 OGUBV56TV
307	15.8	79.0	940	10	CG344308	CG344308 OGKCM59TV	C 380	15.8	79.0	817	10	CG238420	CG238420 CGWGH18TH
308	15.8	79.0	946	7	CK421618	CK421618 AUF_IPSpn	C 381	15.8	79.0	831	2	BG416954	BG416954 HVSME1001
309	15.8	79.0	949	9	CK10998	CK10998 OGWD077M	C 382	15.8	79.0	831	6	CF714210	CF714210 CCADP34TR
310	15.8	79.0	954	10	AG862103	AG862103 Oryza sat	C 383	15.8	79.0	834	7	CO922668	CO922668 AGENCOURT
311	15.8	79.0	959	9	CC074283	CC074283 CSU-K33r.	C 384	15.8	79.0	840	8	DR782114	DR782114 BAC-ENP1
312	15.8	79.0	962	10	CZ986975	CZ986975 201020 To	C 385	15.8	79.0	846	9	CC635367	CC635367 OGUBV56TH
313	15.8	79.0	963	2	BF184433	BF184433 601844370	C 386	15.8	79.0	892	9	BZ577223	BZ577223 m8h2_5309
314	15.8	79.0	968	10	CG072053	CG072053 PUKBJ87TB	C 387	15.8	79.0	895	2	BG109855	BG109855 602279521

388 15.4 77.0 904 9 CC375164 PUHQ34TD
389 15.4 77.0 914 8 DR664497 EST105461
390 15.4 77.0 934 10 CC238429 OGWGH18TV
391 15.4 77.0 944 8 DN568131 90201907
392 15.4 77.0 961 9 CC375160 PUHQ34TB
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398 15.4 77.0 1277 8 DN698722 CLJ19-C06
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407 15.2 76.0 203 5 BX632831 BX632831
408 15.2 76.0 208 4 AK180859 Mus muscu
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422 15.2 76.0 272 1 AV010718 AV010718
423 15.2 76.0 273 9 CC958685 BOIEE61TF
424 15.2 76.0 275 1 AV013386 AV013386
425 15.2 76.0 275 1 AV215641 AV215641
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492 15.2 76.0 413 1 A1317236 A1317236
493 15.2 76.0 414 8 W98700 W98700
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ALIGNMENTS

RESULT 1 367 bp linear EST 26-JUL-2002
BQ762109 EBp101 SQ005 G24 R pistil, 1 DPA, no treatment, cv Optic, EBp101
LOCUS Hordeum vulgare subsp. vulgare cDNA clone EBp101_SQ005_G24_5', mRNA
DEFINITION sequence.
BQ762109 BQ762109.1 GI:21970581
VERSION BQ762109.1
KEYWORDS EST.
SOURCE Hordeum vulgare subsp. vulgare
ORGANISM Hordeum vulgare subsp. vulgare
Eukaryote; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Poideae; Triticeae; Hordeum.
REFERENCE 1 (bases 1 to 367)
AUTHORS Hedley, P., Liu, H., Caldwell, D., McCallum, N., Mudie, S., Cardie, L.,
Ramsay, L., Machray, G., Marshall, D.P.M. and Waugh, R.
DEVELOPMENT Unpublished (2001)
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FEATURES Location/Qualifiers
source 1..367

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 69.1124 Seconds
(without alignments)
514.397 Million cell updates/sec

Title: US-10-805-973-4
Perfect score: 20
Sequence: 1 gtctgctatgatccgaag 20

Scoring table: IDENTITY NUC
Gapox 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : Issued Patents NA.*

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- 2: /cgn2_6/ptodata/1/ina/5_COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
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- 5: /cgn2_6/ptodata/1/ina/H_COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/PCRUS_COMB.seq.*
- 7: /cgn2_6/ptodata/1/ina/PP_COMB.seq.*
- 8: /cgn2_6/ptodata/1/ina/RE_COMB.seq.*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	92.0	1986	3	US-10-258-842-14
2	18.4	92.0	1986	3	US-10-258-842-24
3	18.4	92.0	2301	3	US-10-258-842-2
4	17.4	87.0	182	3	US-10-258-842-10
5	17.4	87.0	182	3	US-10-258-842-12
6	17.4	87.0	186	3	US-10-258-842-13
7	17.4	87.0	208	3	US-10-258-842-9
8	17.4	87.0	208	3	US-10-258-842-11
9	17.4	87.0	528	3	US-10-258-842-16
10	17.4	87.0	1095	3	US-10-258-842-1
11	17.4	87.0	1985	3	US-10-258-842-20
12	17.4	87.0	1986	3	US-10-258-842-18
13	17.4	87.0	2279	3	US-10-258-842-4
14	16.8	84.0	507	3	US-09-105-567A-5
15	16.8	84.0	507	3	US-09-511-720-5
16	16.8	84.0	507	3	US-09-844-036A-5
17	16.8	84.0	1242	3	US-09-603-208A-173
18	16.4	82.0	35337	3	US-09-949-016-17249
19	15.8	79.0	1086	3	US-09-533-559-10
20	15.8	79.0	52457	3	US-09-949-016-12418
21	15.2	76.0	601	3	US-09-949-016-70809
22	15.2	76.0	1391	3	US-09-724-864-19
23	15.2	76.0	1969	2	US-07-737-851-2
24	15.2	76.0	1969	2	US-07-737-851-3

25	15.2	76.0	1969	2	US-07-894-062-2	Sequence 2, Appli
26	15.2	76.0	1969	2	US-07-894-062-3	Sequence 3, Appli
27	15.2	76.0	1969	2	US-09-096-562-2	Sequence 3, Appli
28	15.2	76.0	1969	3	US-09-096-562-3	Sequence 3, Appli
29	15.2	76.0	6504	3	US-09-487-558B-55	Sequence 55, Appli
30	15.2	76.0	88245	3	US-09-949-016-13835	Sequence 13835, A
31	15.2	76.0	4403765	3	US-09-103-840A-2	Sequence 2, Appli
32	15.2	76.0	4411529	3	US-09-103-840A-1	Sequence 1, Appli
33	15	75.0	2426	3	US-08-528-026C-3	Sequence 3, Appli
34	14.8	74.0	601	3	US-09-949-016-90110	Sequence 90110, A
35	14.8	74.0	785	3	US-09-328-352-2137	Sequence 2137, Ap
36	14.8	74.0	1005	3	US-09-248-796A-3142	Sequence 3142, Ap
37	14.8	74.0	1026	3	US-09-614-221A-358	Sequence 358, App
38	14.8	74.0	5919	3	US-09-221-017B-584	Sequence 584, App
39	14.8	74.0	6321	3	US-09-221-017B-311	Sequence 311, App
40	14.8	74.0	55841	3	US-09-949-016-16602	Sequence 16602, A
41	14.8	74.0	105413	3	US-10-427-923-3	Sequence 3, Appli
42	14.8	74.0	112219	3	US-09-949-016-12453	Sequence 12453, A
43	14.8	74.0	112222	3	US-09-949-016-14324	Sequence 14324, A
44	14.8	74.0	113186	3	US-09-949-016-17572	Sequence 17572, A
45	14.8	74.0	128470	3	US-09-533-559-7738	Sequence 13765, A
46	14.4	72.0	704	3	US-09-533-559-7738	Sequence 7738, Ap
47	14.4	72.0	990	3	US-09-252-991A-2289	Sequence 2289, Ap
48	14.4	72.0	1059	3	US-09-252-991A-2370	Sequence 2370, Ap
49	14.4	72.0	1107	3	US-09-252-991A-2547	Sequence 2547, Ap
50	14.4	72.0	1470	3	US-09-620-312D-846	Sequence 846, App
51	14.4	72.0	1797	3	US-09-107-532A-3373	Sequence 3373, Ap
52	14.4	72.0	1969	2	US-07-737-851-1	Sequence 1, Appli
53	14.4	72.0	1969	2	US-07-894-062-1	Sequence 1, Appli
54	14.4	72.0	1969	3	US-09-096-562-1	Sequence 1, Appli
55	14.4	72.0	2226	3	US-09-799-451-355	Sequence 355, App
56	14.4	72.0	2727	3	US-09-814-915A-36	Sequence 36, Appl
57	14.4	72.0	2813	3	US-09-949-016-2085	Sequence 2085, Ap
58	14.4	72.0	3541	3	US-09-585-645A-32	Sequence 32, Appl
59	14.4	72.0	12981	3	US-09-949-016-13827	Sequence 13827, A
60	14.4	72.0	117807	3	US-09-949-016-15525	Sequence 15525, A
61	14.2	71.0	25	3	US-09-396-196G-122165	Sequence 122165, A
62	14.2	71.0	147	3	US-09-902-540-8463	Sequence 8463, Ap
63	14.2	71.0	219	3	US-09-583-110-2167	Sequence 2167, Ap
64	14.2	71.0	426	2	US-08-470-179-193	Sequence 193, App
65	14.2	71.0	601	3	US-09-949-016-28440	Sequence 28440, A
66	14.2	71.0	601	3	US-09-949-016-132276	Sequence 132276, A
67	14.2	71.0	601	3	US-09-949-016-156931	Sequence 156931, A
68	14.2	71.0	601	3	US-09-949-016-175827	Sequence 175827, A
69	14.2	71.0	601	3	US-09-949-016-175828	Sequence 175828, A
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71	14.2	71.0	612	3	US-09-252-991A-10896	Sequence 10896, A
72	14.2	71.0	636	3	US-09-248-796A-2181	Sequence 2181, Ap
73	14.2	71.0	687	3	US-08-545-809A-34	Sequence 34, Appl
74	14.2	71.0	687	3	US-09-515-697-34	Sequence 34, Appl
75	14.2	71.0	729	3	US-09-270-767-1796	Sequence 1796, Ap
76	14.2	71.0	729	3	US-09-270-767-17078	Sequence 17078, A
77	14.2	71.0	786	3	US-09-134-000C-1561	Sequence 1561, Ap
78	14.2	71.0	799	3	US-09-640-211A-236	Sequence 236, App
79	14.2	71.0	828	3	US-09-489-039A-4618	Sequence 4618, Ap
80	14.2	71.0	876	3	US-09-270-767-7102	Sequence 7102, Ap
81	14.2	71.0	876	3	US-09-270-767-22384	Sequence 22384, A
82	14.2	71.0	1035	3	US-09-107-532A-3377	Sequence 3377, Ap
83	14.2	71.0	1082	3	US-09-583-110-2166	Sequence 2166, Ap
84	14.2	71.0	1111	3	US-09-774-528-387	Sequence 387, App
85	14.2	71.0	1111	3	US-10-120-988-387	Sequence 387, App
86	14.2	71.0	1117	3	US-09-583-110-1986	Sequence 1986, Ap
87	14.2	71.0	1140	3	US-09-107-433-884	Sequence 884, App
88	14.2	71.0	1212	3	US-09-134-000C-1099	Sequence 1099, Ap
89	14.2	71.0	1245	3	US-09-248-796A-317	Sequence 317, App
90	14.2	71.0	1296	3	US-09-107-532A-3425	Sequence 3425, Ap
91	14.2	71.0	1305	3	US-09-248-796A-1639	Sequence 1639, Ap
92	14.2	71.0	1387	3	US-09-902-540-256	Sequence 256, App
93	14.2	71.0	1387	3	US-09-902-540-6066	Sequence 6066, Ap
94	14.2	71.0	1725	3	US-09-489-039A-6229	Sequence 6229, Ap
95	14.2	71.0	1839	3	US-09-252-991A-10857	Sequence 10857, A
96	14.2	71.0	2127	3	US-09-252-991A-8192	Sequence 8192, Ap
97	14.2	71.0	2380	3	US-09-964-992A-4	Sequence 4, Appli

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c 99	14.2	71.0	3766	3	US-08-961-527-225	Sequence 225, App	172	13.8	69.0	1383	3	US-09-252-991A-11197	Sequence 11197, A
c 100	14.2	71.0	4320	2	US-08-472-534-4	Sequence 4, Appli	173	13.8	69.0	1489	3	US-09-270-767-15043	Sequence 15043, A
c 101	14.2	71.0	4959	3	US-09-949-016-12873	Sequence 12873, A	c 174	13.8	69.0	1509	4	US-09-605-703B-1631	Sequence 1631, App
c 102	14.2	71.0	4959	3	US-09-949-016-14850	Sequence 14850, A	c 175	13.8	69.0	1510	3	US-09-603-208A-257	Sequence 257, App
c 103	14.2	71.0	6730	3	US-08-956-171E-51	Sequence 51, Appl	c 176	13.8	69.0	1650	3	US-09-252-991A-8097	Sequence 8097, App
c 104	14.2	71.0	6730	3	US-08-781-986A-51	Sequence 51, Appl	c 177	13.8	69.0	1656	3	US-09-489-039A-5742	Sequence 5742, App
c 105	14.2	71.0	7012	3	US-09-902-540-890	Sequence 890, App	c 178	13.8	69.0	1749	3	US-09-252-991A-11055	Sequence 11055, A
c 106	14.2	71.0	7174	3	US-08-961-527-189	Sequence 189, App	c 179	13.8	69.0	2145	3	US-09-252-991A-8205	Sequence 8205, App
c 107	14.2	71.0	9069	3	US-09-949-016-15856	Sequence 15856, A	c 180	13.8	69.0	2311	3	US-09-774-528-35	Sequence 35, Appl
c 108	14.2	71.0	9461	3	US-09-221-017B-513	Sequence 513, App	c 181	13.8	69.0	2311	3	US-10-120-988-35	Sequence 35, Appl
c 109	14.2	71.0	13361	3	US-09-949-016-12478	Sequence 12478, A	c 182	13.8	69.0	2624	2	US-08-016-863-15	Sequence 15, Appl
c 110	14.2	71.0	13785	3	US-09-949-016-15631	Sequence 15631, A	c 183	13.8	69.0	2624	2	US-08-276-968A-15	Sequence 15, Appl
c 111	14.2	71.0	14342	3	US-09-902-540-1118	Sequence 1118, App	c 184	13.8	69.0	2724	3	US-09-602-777A-103	Sequence 103, App
c 112	14.2	71.0	19454	3	US-09-949-016-15352	Sequence 15352, A	c 185	13.8	69.0	2991	3	US-10-104-047-1527	Sequence 1527, App
c 113	14.2	71.0	26841	3	US-09-949-016-15893	Sequence 15893, A	c 186	13.8	69.0	3102	3	US-09-489-039A-6353	Sequence 6353, App
c 114	14.2	71.0	30365	3	US-09-825-414-1	Sequence 1, Appli	c 187	13.8	69.0	3819	2	US-07-686-322A-3	Sequence 3, Appli
c 115	14.2	71.0	36952	3	US-09-949-016-14786	Sequence 14786, A	c 188	13.8	69.0	3819	2	US-08-002-999-3	Sequence 1, Appli
c 116	14.2	71.0	39113	3	US-09-949-016-15634	Sequence 15634, A	c 189	13.8	69.0	5128	3	US-09-364-206-1	Sequence 4, Appli
c 117	14.2	71.0	54878	3	US-09-949-016-12255	Sequence 12255, A	c 190	13.8	69.0	11785	2	US-08-038-768A-4	Sequence 3, Appli
c 118	14.2	71.0	59319	3	US-09-949-016-16115	Sequence 16115, A	c 191	13.8	69.0	11785	2	US-08-416-603-3	Sequence 3, Appli
c 119	14.2	71.0	63982	3	US-09-949-016-16769	Sequence 16769, A	c 192	13.8	69.0	12082	3	US-09-949-016-16487	Sequence 16487, A
c 120	14.2	71.0	66988	3	US-09-949-016-11942	Sequence 11942, A	c 193	13.8	69.0	12584	3	US-09-949-016-15150	Sequence 15150, A
c 121	14.2	71.0	94748	3	US-09-949-016-16063	Sequence 16063, A	c 194	13.8	69.0	13440	3	US-08-961-527-1128	Sequence 128, App
c 122	14.2	71.0	94748	3	US-09-949-016-12648	Sequence 12648, A	c 195	13.8	69.0	15720	3	US-09-949-016-11780	Sequence 11780, A
c 123	14.2	71.0	94758	3	US-09-949-016-16741	Sequence 16741, A	c 196	13.8	69.0	15720	3	US-09-949-016-14233	Sequence 14233, A
c 124	14.2	71.0	99660	3	US-09-762-311-2	Sequence 2, Appli	c 197	13.8	69.0	15739	3	US-09-949-016-13153	Sequence 13153, A
c 125	14.2	71.0	113966	3	US-09-949-016-12277	Sequence 12277, A	c 198	13.8	69.0	25230	3	US-09-949-016-12736	Sequence 12736, A
c 126	14.2	71.0	113967	3	US-09-949-016-17051	Sequence 17051, A	c 199	13.8	69.0	26852	3	US-09-949-016-15823	Sequence 15823, A
c 127	14.2	71.0	118143	3	US-09-949-016-17196	Sequence 17196, A	c 200	13.8	69.0	30371	3	US-09-949-016-15395	Sequence 15395, A
c 128	14.2	71.0	137046	3	US-09-949-016-12427	Sequence 12427, A	c 201	13.8	69.0	32202	3	US-09-949-016-15357	Sequence 15357, A
c 129	14.2	71.0	137048	3	US-09-949-016-13438	Sequence 13438, A	c 202	13.8	69.0	46805	3	US-09-949-002-585	Sequence 585, App
c 130	14.2	71.0	138282	3	US-09-949-016-15307	Sequence 15307, A	c 203	13.8	69.0	46806	3	US-09-949-002-842	Sequence 842, App
c 131	14.2	71.0	260286	3	US-09-949-016-17037	Sequence 17037, A	c 204	13.8	69.0	46806	3	US-09-949-002-842	Sequence 32, Appl
c 132	14.2	71.0	260293	3	US-09-949-016-12106	Sequence 12106, A	c 205	13.8	69.0	118999	3	US-09-791-105B-32	Sequence 32, Appl
c 133	14.2	71.0	285986	3	US-09-949-016-12287	Sequence 12287, A	c 206	13.8	69.0	232547	3	US-09-949-016-16603	Sequence 16603, A
c 134	14.2	71.0	331814	3	US-09-949-016-12008	Sequence 12008, A	c 207	13.8	69.0	240157	3	US-09-949-016-16264	Sequence 16264, A
c 135	14.2	71.0	331814	3	US-09-949-016-17056	Sequence 17056, A	c 208	13.8	69.0	300402	3	US-09-949-016-13632	Sequence 13632, A
c 136	14.2	71.0	450395	3	US-09-949-016-15473	Sequence 15473, A	c 209	13.8	69.0	399504	3	US-09-949-016-11774	Sequence 11774, A
c 137	14.2	71.0	536165	3	US-09-214-808-1	Sequence 1, Appli	c 210	13.8	69.0	1230025	3	US-09-198-452A-1	Sequence 1, Appli
c 138	14	70.0	29	3	US-09-386-642-49	Sequence 49, Appl	c 211	13.8	69.0	1230230	3	US-09-438-185A-1	Sequence 1, Appli
c 139	14	70.0	346	3	US-09-543-681A-2672	Sequence 3, Appli	c 212	13.8	69.0	1830121	3	US-09-557-884-1	Sequence 1, Appli
c 140	14	70.0	747	3	US-09-244-111-3	Sequence 2672, App	c 213	13.8	69.0	1830121	3	US-09-643-990A-1	Sequence 1, Appli
c 141	14	70.0	792	3	US-09-008-271A-19	Sequence 3, Appli	c 214	13.6	68.0	25	3	US-10-158-865-1	Sequence 1, Appli
c 142	14	70.0	994	3	US-09-968-415-19	Sequence 19, Appl	c 215	13.6	68.0	122	3	US-09-396-196G-26740	Sequence 26740, A
c 143	14	70.0	999	3	US-09-999-833A-394	Sequence 394, App	c 216	13.6	68.0	173	3	US-09-270-767-30089	Sequence 30089, A
c 144	14	70.0	999	3	US-10-020-445A-394	Sequence 9, Appli	c 217	13.6	68.0	311	3	US-09-513-999C-30711	Sequence 30711, A
c 145	14	70.0	1049	3	US-09-386-642-9	Sequence 9, Appli	c 218	13.6	68.0	321	3	US-09-513-999C-3595	Sequence 3595, App
c 146	14	70.0	1098	3	US-09-134-000C-1526	Sequence 1526, App	c 219	13.6	68.0	336	3	US-09-328-352-166	Sequence 166, App
c 147	14	70.0	1343	3	US-09-618-259-72	Sequence 72, Appl	c 220	13.6	68.0	348	3	US-09-621-976-15624	Sequence 15624, A
c 148	14	70.0	1360	3	US-09-618-259-6	Sequence 6, Appli	c 221	13.6	68.0	383	3	US-09-621-976-15626	Sequence 15626, A
c 149	14	70.0	1840	3	US-09-270-767-14441	Sequence 14441, A	c 222	13.6	68.0	407	3	US-09-513-999C-12670	Sequence 12670, A
c 150	14	70.0	5214	3	US-09-546-934-2	Sequence 2, Appli	c 223	13.6	68.0	407	3	US-08-718-323A-5	Sequence 5, Appli
c 151	14	70.0	678533	3	US-09-949-016-14577	Sequence 14577, A	c 224	13.6	68.0	443	3	US-09-587-526-5	Sequence 5, Appli
c 152	14	70.0	678533	3	US-09-949-016-14578	Sequence 14578, A	c 225	13.6	68.0	459	3	US-09-358-321C-41	Sequence 41, Appl
c 153	14	70.0	678533	3	US-09-364-206-9	Sequence 9, Appli	c 226	13.6	68.0	459	3	US-09-358-321C-29	Sequence 29, Appl
c 154	13.8	69.0	488	3	US-09-949-016-14578	Sequence 9, Appli	c 227	13.6	68.0	462	3	US-09-621-976-2015	Sequence 2015, App
c 155	13.8	69.0	502	3	US-09-621-976-17546	Sequence 17546, A	c 228	13.6	68.0	479	3	US-09-621-976-2016	Sequence 2016, App
c 156	13.8	69.0	511	3	US-09-854-133-360	Sequence 1360, App	c 229	13.6	68.0	481	3	US-09-621-976-2013	Sequence 2013, App
c 157	13.8	69.0	586	3	US-09-364-206-10	Sequence 10, Appl	c 230	13.6	68.0	531	3	US-09-621-976-2014	Sequence 2014, App
c 158	13.8	69.0	591	3	US-09-854-133-315	Sequence 315, App	c 231	13.6	68.0	531	3	US-09-134-000C-1801	Sequence 1801, App
c 159	13.8	69.0	601	3	US-09-949-002-1270	Sequence 1270, App	c 232	13.6	68.0	555	3	US-09-513-999C-1895	Sequence 1895, App
c 160	13.8	69.0	621	3	US-09-949-002-10402	Sequence 10402, A	c 233	13.6	68.0	555	3	US-09-513-999C-248	Sequence 248, App
c 161	13.8	69.0	621	3	US-09-533-559-429	Sequence 429, App	c 234	13.6	68.0	573	3	US-09-252-991A-13283	Sequence 13283, A
c 162	13.8	69.0	634	3	US-09-364-206-11	Sequence 11, Appl	c 235	13.6	68.0	593	3	US-09-270-767-14006	Sequence 14006, A
c 163	13.8	69.0	864	3	US-09-248-796A-6229	Sequence 6229, App	c 236	13.6	68.0	601	3	US-09-949-016-19439	Sequence 19439, A
c 164	13.8	69.0	964	3	US-09-602-777A-107	Sequence 107, App	c 237	13.6	68.0	601	3	US-09-949-016-19440	Sequence 19440, A
c 165	13.8	69.0	1005	3	US-09-949-016-4745	Sequence 4745, App	c 238	13.6	68.0	601	3	US-09-949-016-30020	Sequence 30020, A
c 166	13.8	69.0	1006	3	US-09-964-899-22	Sequence 22, Appl	c 239	13.6	68.0	601	3	US-09-949-016-49621	Sequence 49621, A
c 167	13.8	69.0	1020	3	US-09-252-991A-11162	Sequence 11162, A	c 240	13.6	68.0	601	3	US-09-949-016-70142	Sequence 70142, A
c 168	13.8	69.0	1190	3	US-09-774-528-379	Sequence 379, App	c 241	13.6	68.0	601	3	US-09-949-016-70143	Sequence 70143, A
c 169	13.8	69.0	1190	3	US-10-120-988-379	Sequence 379, App	c 242	13.6	68.0	601	3	US-09-949-016-70144	Sequence 70144, A
c 170	13.8	69.0	1250	3	US-09-774-528-380	Sequence 380, App	c 243	13.6	68.0	601	3	US-09-949-016-73384	Sequence 73384, A

244	13.6	68.0	601	3	US-09-949-016-75840	Sequence 75840, A	317	13.6	68.0	2706	3	US-09-066-046-23	Sequence 23, Appl
245	13.6	68.0	601	3	US-09-949-016-77525	Sequence 77525, A	c 318	13.6	68.0	2754	3	US-09-252-991A-8530	Sequence 8530, Ap
c 246	13.6	68.0	601	3	US-09-949-016-89732	Sequence 89732, A	319	13.6	68.0	2760	3	US-09-270-767-13149	Sequence 13149, A
c 247	13.6	68.0	601	3	US-09-949-016-108798	Sequence 108798, A	320	13.6	68.0	2768	3	US-09-991-181-51	Sequence 51, Appl
c 248	13.6	68.0	601	3	US-09-949-016-113358	Sequence 113358, A	321	13.6	68.0	2768	3	US-09-990-444-51	Sequence 51, Appl
c 249	13.6	68.0	601	3	US-09-949-016-116776	Sequence 116776, A	322	13.6	68.0	2768	3	US-09-997-333-51	Sequence 51, Appl
c 250	13.6	68.0	601	3	US-09-949-016-116777	Sequence 116777, A	323	13.6	68.0	2768	3	US-09-992-598-51	Sequence 51, Appl
c 251	13.6	68.0	601	3	US-09-949-016-195352	Sequence 195352, A	324	13.6	68.0	2815	3	US-10-104-047-75	Sequence 75, Appl
c 252	13.6	68.0	601	3	US-09-949-016-198105	Sequence 198105, A	325	13.6	68.0	2852	3	US-09-063-950-1	Sequence 1, Appl
c 253	13.6	68.0	601	3	US-09-949-016-202423	Sequence 202423, A	326	13.6	68.0	2852	3	US-09-907-794A-189	Sequence 189, App
c 254	13.6	68.0	601	3	US-09-949-016-202424	Sequence 202424, A	327	13.6	68.0	2917	3	US-09-905-125A-189	Sequence 189, App
c 255	13.6	68.0	601	3	US-09-949-002-3817	Sequence 3817, Ap	328	13.6	68.0	2917	3	US-09-906-770A-189	Sequence 189, App
c 256	13.6	68.0	601	3	US-09-949-002-10450	Sequence 10450, A	329	13.6	68.0	2917	3	US-09-906-700-189	Sequence 189, App
c 257	13.6	68.0	606	3	US-09-270-767-16050	Sequence 768, App	c 330	13.6	68.0	2917	3	US-09-903-603A-189	Sequence 189, App
c 258	13.6	68.0	606	3	US-09-270-767-16050	Sequence 16050, A	c 331	13.6	68.0	2917	3	US-09-904-462-189	Sequence 189, App
c 259	13.6	68.0	612	3	US-09-328-352-167	Sequence 167, App	c 332	13.6	68.0	2917	3	US-09-909-064-189	Sequence 189, App
c 260	13.6	68.0	635	3	US-09-621-976-2017	Sequence 2017, Ap	c 333	13.6	68.0	2917	3	US-09-905-381A-189	Sequence 189, App
c 261	13.6	68.0	668	3	US-08-578-634C-2	Sequence 2, Appl	c 334	13.6	68.0	2917	3	US-09-906-618-189	Sequence 189, App
c 262	13.6	68.0	668	3	US-09-430-010-2	Sequence 2, Appl	c 335	13.6	68.0	2917	3	US-09-906-646-189	Sequence 189, App
c 263	13.6	68.0	674	3	US-09-673-395A-94	Sequence 94, Appl	c 336	13.6	68.0	2917	3	US-09-906-646-189	Sequence 189, App
c 264	13.6	68.0	738	3	US-09-358-321C-49	Sequence 49, Appl	c 337	13.6	68.0	2917	3	US-09-902-736A-189	Sequence 189, App
c 265	13.6	68.0	753	3	US-09-358-321C-51	Sequence 51, Appl	c 338	13.6	68.0	2917	3	US-09-906-722A-189	Sequence 189, App
c 266	13.6	68.0	807	3	US-09-270-767-10066	Sequence 10066, A	c 339	13.6	68.0	3054	3	US-09-149-476-194	Sequence 194, App
c 267	13.6	68.0	830	3	US-09-358-321C-31	Sequence 31, Appl	c 340	13.6	68.0	3073	3	US-08-975-762-41	Sequence 41, Appl
c 268	13.6	68.0	846	3	US-09-358-321C-48	Sequence 48, Appl	c 341	13.6	68.0	3073	3	US-09-295-028-41	Sequence 41, Appl
c 269	13.6	68.0	851	3	US-09-358-321C-42	Sequence 42, Appl	c 342	13.6	68.0	3073	3	US-09-106-582-41	Sequence 41, Appl
c 270	13.6	68.0	867	3	US-09-358-321C-43	Sequence 43, Appl	c 343	13.6	68.0	3073	3	US-09-159-469-41	Sequence 41, Appl
c 271	13.6	68.0	882	3	US-09-358-321C-24	Sequence 24, Appl	c 344	13.6	68.0	3073	3	US-09-693-542-41	Sequence 41, Appl
c 272	13.6	68.0	882	3	US-09-358-321C-47	Sequence 47, Appl	c 345	13.6	68.0	3132	3	US-09-286-304-45	Sequence 45, Appl
c 273	13.6	68.0	1039	3	US-08-975-762-36	Sequence 36, Appl	c 346	13.6	68.0	3132	3	US-09-640-101-45	Sequence 45, Appl
c 274	13.6	68.0	1039	3	US-08-821-324-36	Sequence 36, Appl	c 347	13.6	68.0	3252	3	US-09-604-608-1	Sequence 1, Appl
c 275	13.6	68.0	1039	3	US-09-295-028-36	Sequence 36, Appl	c 348	13.6	68.0	3339	3	US-09-614-221A-600	Sequence 600, App
c 276	13.6	68.0	1039	3	US-09-106-582-36	Sequence 36, Appl	c 349	13.6	68.0	3634	3	US-09-814-915A-28	Sequence 28, Appl
c 277	13.6	68.0	1039	3	US-09-159-469-36	Sequence 36, Appl	c 350	13.6	68.0	3634	3	US-09-949-016-5605	Sequence 5605, Ap
c 278	13.6	68.0	1039	3	US-09-693-542-36	Sequence 36, Appl	c 351	13.6	68.0	3634	3	US-09-949-016-5606	Sequence 5606, Ap
c 279	13.6	68.0	1095	3	US-09-891-641-46	Sequence 46, Appl	c 352	13.6	68.0	4076	3	US-09-873-737A-3	Sequence 3, Appl
c 280	13.6	68.0	1269	3	US-09-976-594-543	Sequence 543, App	c 353	13.6	68.0	4790	3	US-10-464-939-3	Sequence 3, Appl
c 281	13.6	68.0	1371	3	US-09-248-796A-2945	Sequence 2945, Ap	c 354	13.6	68.0	5226	3	US-09-949-016-4074	Sequence 4074, Ap
c 282	13.6	68.0	1443	3	US-09-252-991A-8318	Sequence 8318, Ap	c 355	13.6	68.0	5825	3	US-09-949-016-4382	Sequence 4382, Ap
c 283	13.6	68.0	1455	3	US-10-142-231-43	Sequence 43, Appl	c 356	13.6	68.0	5878	3	US-09-949-016-939	Sequence 939, App
c 284	13.6	68.0	1495	3	US-09-364-230-11	Sequence 11, Appl	c 357	13.6	68.0	6641	3	US-09-064-693A-25	Sequence 25, Appl
c 285	13.6	68.0	1572	3	US-09-585-645A-57	Sequence 57, Appl	c 358	13.6	68.0	8170	3	US-09-949-016-2660	Sequence 2660, Ap
c 286	13.6	68.0	1803	3	US-09-252-991A-12466	Sequence 12466, A	c 359	13.6	68.0	9997	2	US-08-246-982A-15	Sequence 15, Appl
c 287	13.6	68.0	1830	2	US-08-343-733A-2	Sequence 2, Appl	c 360	13.6	68.0	9997	2	US-08-453-265-15	Sequence 15, Appl
c 288	13.6	68.0	1896	3	US-09-343-011B-4	Sequence 4, Appl	c 361	13.6	68.0	10103	2	US-08-457-273B-7	Sequence 7, Appl
c 289	13.6	68.0	1924	3	US-10-018-902-3	Sequence 3, Appl	c 362	13.6	68.0	11577	3	US-09-949-016-14662	Sequence 14662, A
c 290	13.6	68.0	1971	3	US-09-252-991A-13004	Sequence 13004, A	c 363	13.6	68.0	13119	3	US-09-949-016-14648	Sequence 14648, A
c 291	13.6	68.0	2019	3	US-09-063-950-3	Sequence 3, Appl	c 364	13.6	68.0	14012	3	US-09-949-016-14625	Sequence 14625, A
c 292	13.6	68.0	2026	2	US-08-149-097D-19	Sequence 19, Appl	c 365	13.6	68.0	16080	3	US-09-724-566A-48	Sequence 48, Appl
c 293	13.6	68.0	2144	2	US-08-149-097D-20	Sequence 20, Appl	c 366	13.6	68.0	16080	3	US-09-471-669A-48	Sequence 48, Appl
c 294	13.6	68.0	2144	3	US-08-949-386-20	Sequence 20, Appl	c 367	13.6	68.0	25969	3	US-09-949-016-13397	Sequence 13397, A
c 295	13.6	68.0	2144	3	US-08-450-562-20	Sequence 20, Appl	c 368	13.6	68.0	26007	3	US-09-949-016-17222	Sequence 17222, A
c 296	13.6	68.0	2144	3	US-08-984-709A-20	Sequence 20, Appl	c 369	13.6	68.0	26334	3	US-09-949-016-17354	Sequence 17354, A
c 297	13.6	68.0	2144	3	US-08-450-272-20	Sequence 20, Appl	c 370	13.6	68.0	26510	3	US-09-949-016-12408	Sequence 12408, A
c 298	13.6	68.0	2144	3	US-08-450-273-20	Sequence 20, Appl	c 371	13.6	68.0	29624	3	US-09-949-016-12367	Sequence 12367, A
c 299	13.6	68.0	2153	3	US-08-949-386-19	Sequence 19, Appl	c 372	13.6	68.0	29624	3	US-09-949-016-13943	Sequence 13943, A
c 300	13.6	68.0	2153	3	US-08-450-562-19	Sequence 19, Appl	c 373	13.6	68.0	30032	3	US-09-949-016-13933	Sequence 13933, A
c 301	13.6	68.0	2153	3	US-08-984-709A-19	Sequence 19, Appl	c 374	13.6	68.0	34544	3	US-09-949-016-12681	Sequence 12681, A
c 302	13.6	68.0	2153	3	US-08-450-272-19	Sequence 19, Appl	c 375	13.6	68.0	34548	3	US-09-949-016-16124	Sequence 16124, A
c 303	13.6	68.0	2153	3	US-08-450-273-19	Sequence 19, Appl	c 376	13.6	68.0	35493	3	US-09-949-016-16780	Sequence 16780, A
c 304	13.6	68.0	2185	3	US-10-104-047-1675	Sequence 1675, Ap	c 377	13.6	68.0	36470	3	US-08-311-731A-1373	Sequence 1373, App
c 305	13.6	68.0	2187	3	US-09-248-796A-6164	Sequence 6164, Ap	c 378	13.6	68.0	39032	3	US-09-949-016-12874	Sequence 12874, A
c 306	13.6	68.0	2253	3	US-10-104-047-658	Sequence 658, App	c 379	13.6	68.0	39039	3	US-09-949-016-16462	Sequence 16462, A
c 307	13.6	68.0	2420	6	PCT-US93-00227-1	Sequence 1, Appl	c 380	13.6	68.0	39113	3	US-09-949-016-15634	Sequence 15634, A
c 308	13.6	68.0	2431	3	US-10-131-827-8865	Sequence 865, Ap	c 381	13.6	68.0	41927	3	US-09-902-540-1288	Sequence 1268, Ap
c 309	13.6	68.0	2456	3	US-09-064-693A-19	Sequence 19, Appl	c 382	13.6	68.0	45587	3	US-09-949-016-15836	Sequence 15836, A
c 310	13.6	68.0	2497	3	US-09-949-016-2883	Sequence 2883, Ap	c 383	13.6	68.0	51927	3	US-09-949-016-17347	Sequence 17347, A
c 311	13.6	68.0	2555	3	US-09-866-028-68	Sequence 68, Appl	c 384	13.6	68.0	51927	3	US-09-949-016-17348	Sequence 17348, A
c 312	13.6	68.0	2555	3	US-09-944-457-68	Sequence 68, Appl	c 385	13.6	68.0	51967	3	US-09-949-016-16982	Sequence 16982, A
c 313	13.6	68.0	2555	3	US-09-945-584-68	Sequence 68, Appl	c 386	13.6	68.0	57103	3	US-09-949-016-13445	Sequence 13445, A
c 314	13.6	68.0	2555	3	US-09-944-944-68	Sequence 68, Appl	c 387	13.6	68.0	60137	3	US-09-949-016-14735	Sequence 14735, A
c 315	13.6	68.0	2555	3	US-09-945-587-68	Sequence 68, Appl	c 388	13.6	68.0	60137	3	US-09-949-016-14912	Sequence 14912, A
c 316	13.6	68.0	2577	3	US-09-252-991A-8458	Sequence 8458, Ap	c 389	13.6	68.0	63467	3	US-09-949-002-693	Sequence 693, App

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ALIGNMENTS

RESULT 1
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; Sequence 14, Application US/10258842
; Patent No. 6943280
; GENERAL INFORMATION:
; APPLICANT: Board of Supervisors of Louisiana State University and Agricultural and
; APPLICANT: Mechanical College
; APPLICANT: Croughan, Timothy
; TITLE OF INVENTION: RESISTANCE TO ACETOHYDROXYACID SYNTHASE-INHIBITING HERBICIDES
; FILE REFERENCE: 98A9.2-PCT Croughan
; CURRENT APPLICATION NUMBER: US/10/258,842
; CURRENT FILING DATE: 2002-10-28
; PRIOR APPLICATION NUMBER: US 60/203,434
; PRIOR FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.0; and WordPerfect version 8
; SEQ ID NO 14
; LENGTH: 1986
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Complete AHAAS sequence, wild type, cultivar Cypress
US-10-258-842-14

Query Match 92.0%; Score 18.4; DB 3; Length 1986;
Best Local Similarity 95.0%; Pred. No. 4.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Title: US-10-805-973-4

Perfect score: 20

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IDENTITY NUC

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Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : Published Applications NA Main:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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c 108	15.2	76.0	280	3	US-09-983-965-3521	Sequence 3521, Ap	181	15.2	76.0	2745	10	US-11-097-143-40438	Sequence 40438, A
c 109	15.2	76.0	279	7	US-10-469-285-17	Sequence 17, Appl	182	15.2	76.0	2895	7	US-10-437-963-63578	Sequence 63578, A
c 110	15.2	76.0	326	3	US-09-733-627A-2992	Sequence 2992, Ap	183	15.2	76.0	2931	8	US-10-425-115-83343	Sequence 83343, A
c 111	15.2	76.0	372	7	US-10-437-963-64948	Sequence 64948, A	184	15.2	76.0	2931	8	US-10-425-115-83343	Sequence 83343, A
c 112	15.2	76.0	381	7	US-10-437-963-68777	Sequence 68777, A	c 184	15.2	76.0	3382	8	US-10-425-115-94171	Sequence 94171, A
c 113	15.2	76.0	411	3	US-09-814-353-1947	Sequence 1947, Ap	186	15.2	76.0	3645	3	US-09-083-290-1	Sequence 1, Appl
c 114	15.2	76.0	411	3	US-09-814-353-8294	Sequence 8294, Ap	187	15.2	76.0	3645	6	US-10-053-291-1	Sequence 1, Appl
c 115	15.2	76.0	450	9	US-10-972-079-47672	Sequence 47672, A	c 188	15.2	76.0	3972	7	US-10-437-963-1932	Sequence 1932, Ap
c 116	15.2	76.0	451	9	US-10-972-079-47671	Sequence 47671, A	c 189	15.2	76.0	4075	3	US-09-814-353-20205	Sequence 20205, A
c 117	15.2	76.0	462	3	US-09-814-353-14678	Sequence 14678, A	190	15.2	76.0	5128	7	US-10-233-965-3	Sequence 3, Appl
c 118	15.2	76.0	478	7	US-10-021-323-1881	Sequence 1881, Ap	191	15.2	76.0	5128	9	US-10-485-225-41	Sequence 41, Appl
c 119	15.2	76.0	488	5	US-10-027-632-105319	Sequence 105319, A	192	15.2	76.0	5128	10	US-11-070-332-3	Sequence 3, Appl
c 120	15.2	76.0	488	6	US-10-027-632-105319	Sequence 105319, A	193	15.2	76.0	5191	7	US-10-437-963-24216	Sequence 24216, A
c 121	15.2	76.0	490	3	US-09-764-868-112	Sequence 112, App	194	15.2	76.0	5606	7	US-10-001-985-21	Sequence 21, Appl
c 122	15.2	76.0	490	3	US-09-764-875-441	Sequence 441, App	195	15.2	76.0	5606	10	US-11-057-447-21	Sequence 21, Appl
c 123	15.2	76.0	496	8	US-10-425-115-116236	Sequence 116236, A	196	15.2	76.0	5606	3	US-09-801-368-55	Sequence 55, Appl
c 124	15.2	76.0	551	7	US-10-021-323-1865	Sequence 1865, Ap	197	15.2	76.0	6504	6	US-10-369-493-25460	Sequence 25460, A
c 125	15.2	76.0	555	8	US-10-425-115-126230	Sequence 126230, A	c 198	15.2	76.0	48652	5	US-10-087-192-859	Sequence 859, App
c 126	15.2	76.0	564	5	US-10-027-632-21475	Sequence 21475, A	199	15.2	76.0	94781	8	US-10-388-838-55	Sequence 55, Appl
c 127	15.2	76.0	564	6	US-10-027-632-21475	Sequence 21475, A	200	15	75.0	24	3	US-09-940-185-2705	Sequence 2705, Ap
c 128	15.2	76.0	598	4	US-09-925-065A-426540	Sequence 426540, A	c 201	15	75.0	600	9	US-10-972-079-17187	Sequence 17187, A
c 129	15.2	76.0	600	9	US-10-972-079-875	Sequence 875, App	c 202	15	75.0	600	9	US-10-972-079-17188	Sequence 17188, A
c 130	15.2	76.0	600	9	US-10-972-079-876	Sequence 876, App	c 203	15	75.0	600	9	US-09-925-065A-905145	Sequence 905145, A
c 131	15.2	76.0	600	9	US-10-972-079-877	Sequence 877, App	204	15	75.0	729	4	US-10-424-599-106769	Sequence 106769, A
c 132	15.2	76.0	600	9	US-10-972-079-878	Sequence 878, App	c 205	15	75.0	5665	7	US-10-437-963-62160	Sequence 62160, A
c 133	15.2	76.0	600	9	US-10-972-079-879	Sequence 879, App	c 206	14.8	74.0	25	7	US-10-719-956-407938	Sequence 407938, A
c 134	15.2	76.0	623	7	US-10-021-323-669	Sequence 669, App	c 207	14.8	74.0	356	8	US-10-425-115-32300	Sequence 32300, A
c 135	15.2	76.0	649	5	US-10-027-632-15480	Sequence 15480, A	c 208	14.8	74.0	390	9	US-10-501-282-4399	Sequence 4399, Ap
c 136	15.2	76.0	649	6	US-10-027-632-15480	Sequence 15480, A	c 209	14.8	74.0	397	3	US-09-918-995-7932	Sequence 7932, Ap
c 137	15.2	76.0	657	8	US-10-425-115-101968	Sequence 101968, A	c 210	14.8	74.0	404	7	US-10-437-963-21444	Sequence 21444, A
c 138	15.2	76.0	681	10	US-11-097-143-40439	Sequence 40439, A	c 211	14.8	74.0	405	7	US-10-424-599-114795	Sequence 114795, A
c 139	15.2	76.0	799	5	US-10-198-846-6368	Sequence 6368, Ap	c 212	14.8	74.0	422	5	US-10-027-632-63157	Sequence 63157, A
c 140	15.2	76.0	846	7	US-10-424-599-67827	Sequence 67827, A	c 213	14.8	74.0	422	6	US-10-027-632-63157	Sequence 63157, A
c 141	15.2	76.0	911	7	US-10-424-599-94049	Sequence 94049, A	c 214	14.8	74.0	425	5	US-10-027-632-297023	Sequence 297023, A
c 142	15.2	76.0	918	7	US-10-425-114-35723	Sequence 35723, A	c 215	14.8	74.0	425	6	US-10-027-632-297023	Sequence 297023, A
c 143	15.2	76.0	960	8	US-10-774-355A-555	Sequence 555, App	c 216	14.8	74.0	468	5	US-10-027-632-181014	Sequence 181014, A
c 144	15.2	76.0	979	7	US-10-767-701-2215	Sequence 2215, Ap	c 217	14.8	74.0	479	4	US-09-925-065A-741787	Sequence 741787, A
c 145	15.2	76.0	1010	7	US-10-767-701-13073	Sequence 13073, A	c 218	14.8	74.0	479	4	US-09-925-065A-418659	Sequence 418659, A
c 146	15.2	76.0	1061	7	US-10-425-114-17098	Sequence 17098, A	c 219	14.8	74.0	556	5	US-10-027-632-41137	Sequence 41137, A
c 147	15.2	76.0	1178	7	US-10-425-114-36153	Sequence 36153, A	c 220	14.8	74.0	556	5	US-10-027-632-41137	Sequence 41137, A
c 148	15.2	76.0	1226	7	US-10-424-599-44905	Sequence 44905, A	c 221	14.8	74.0	566	6	US-10-027-632-41137	Sequence 41137, A
c 149	15.2	76.0	1339	3	US-09-852-472-18	Sequence 18, Appl	c 222	14.8	74.0	568	7	US-10-437-963-22175	Sequence 22175, A
c 150	15.2	76.0	1369	3	US-09-764-875-131	Sequence 131, App	c 223	14.8	74.0	599	9	US-10-972-079-19242	Sequence 19242, A
c 151	15.2	76.0	1391	3	US-09-866-050A-586	Sequence 586, App	c 224	14.8	74.0	600	9	US-10-972-079-19243	Sequence 19243, A
c 152	15.2	76.0	1406	3	US-10-152-661-586	Sequence 586, App	c 225	14.8	74.0	600	9	US-10-972-079-19244	Sequence 19244, A
c 153	15.2	76.0	1406	6	US-10-369-493-27865	Sequence 27865, A	c 226	14.8	74.0	603	4	US-09-925-065A-165507	Sequence 165507, A
c 154	15.2	76.0	1467	8	US-10-425-115-131957	Sequence 131957, A	c 227	14.8	74.0	605	4	US-09-925-065A-418346	Sequence 418346, A
c 155	15.2	76.0	1478	7	US-10-425-114-2446	Sequence 2446, Ap	c 228	14.8	74.0	605	4	US-09-925-065A-418347	Sequence 418347, A
c 156	15.2	76.0	1503	7	US-10-424-599-67826	Sequence 67826, A	c 229	14.8	74.0	605	4	US-09-925-065A-418348	Sequence 418348, A
c 157	15.2	76.0	1533	8	US-10-425-115-171938	Sequence 171938, A	c 230	14.8	74.0	605	4	US-09-925-065A-418349	Sequence 418349, A
c 158	15.2	76.0	1625	7	US-10-425-114-31333	Sequence 31333, A	c 231	14.8	74.0	656	5	US-10-027-632-127393	Sequence 127393, A
c 159	15.2	76.0	1660	8	US-10-425-115-94167	Sequence 94167, A	c 232	14.8	74.0	656	6	US-10-027-632-127393	Sequence 127393, A
c 160	15.2	76.0	1673	6	US-10-369-493-39790	Sequence 39790, A	c 233	14.8	74.0	978	6	US-10-369-493-45913	Sequence 45913, A
c 161	15.2	76.0	1701	3	US-09-822-849A-200	Sequence 200, App	c 234	14.8	74.0	1026	6	US-10-369-493-45913	Sequence 45913, A
c 162	15.2	76.0	1705	6	US-10-062-674-1756	Sequence 1756, Ap	c 235	14.8	74.0	1026	6	US-10-793-639-358	Sequence 358, App
c 163	15.2	76.0	2106	7	US-10-437-963-1931	Sequence 1931, Ap	c 236	14.8	74.0	1173	9	US-10-501-282-4397	Sequence 4397, Ap
c 164	15.2	76.0	2216	7	US-10-425-114-4552	Sequence 4552, Ap	c 237	14.8	74.0	1542	7	US-10-424-599-128768	Sequence 128768, A
c 165	15.2	76.0	2280	5	US-10-027-632-262971	Sequence 262971, A	c 238	14.8	74.0	1553	7	US-10-437-963-88776	Sequence 88776, A
c 166	15.2	76.0	2280	5	US-10-027-632-262972	Sequence 262972, A	c 239	14.8	74.0	1627	4	US-09-925-065A-706235	Sequence 706235, A
c 167	15.2	76.0	2280	6	US-10-027-632-262971	Sequence 262971, A	c 240	14.8	74.0	1766	7	US-10-191-803-212	Sequence 212, App
c 168	15.2	76.0	2280	6	US-10-027-632-262972	Sequence 262972, A	c 241	14.8	74.0	1989	7	US-10-437-963-81257	Sequence 81257, A
c 169	15.2	76.0	2295	8	US-10-739-930-5541	Sequence 5541, Ap	c 242	14.8	74.0	2103	7	US-10-437-963-80352	Sequence 80352, A

243	14.8	74.0	2118	6	US-10-431-273-5	Sequence 5, Appli	c 316	14.4	72.0	558	4	US-09-925-065A-637643	Sequence 637643, A
244	14.8	74.0	2184	4	US-09-925-065A-4199	Sequence 4199, Ap	c 317	14.4	72.0	592	5	US-10-027-632-81105	Sequence 81105, A
245	14.8	74.0	2225	4	US-09-925-065A-64705	Sequence 64705, A	c 318	14.4	72.0	592	5	US-10-027-632-81105	Sequence 81105, A
246	14.8	74.0	2733	8	US-10-435-115-113871	Sequence 113871, A	c 319	14.4	72.0	592	6	US-10-027-632-81105	Sequence 81105, A
247	14.8	74.0	2817	9	US-10-450-763-5627	Sequence 5627, Ap	c 320	14.4	72.0	592	6	US-10-027-632-81105	Sequence 81105, A
248	14.8	74.0	2835	5	US-10-027-632-112284	Sequence 112284, A	c 321	14.4	72.0	621	7	US-10-425-114-2496	Sequence 2496, Ap
249	14.8	74.0	2835	5	US-10-027-632-112285	Sequence 112285, A	c 322	14.4	72.0	621	7	US-10-425-114-2496	Sequence 2496, Ap
250	14.8	74.0	2835	6	US-10-027-632-112284	Sequence 112284, A	c 323	14.4	72.0	621	7	US-10-425-114-2496	Sequence 2496, Ap
251	14.8	74.0	2835	6	US-10-027-632-112285	Sequence 112285, A	c 324	14.4	72.0	621	7	US-10-425-114-2496	Sequence 2496, Ap
252	14.8	74.0	2978	3	US-09-946-290-15	Sequence 15, Appl	c 325	14.4	72.0	640	6	US-10-437-963-61004	Sequence 61004, A
253	14.8	74.0	3411	7	US-10-437-963-80405	Sequence 80405, A	c 326	14.4	72.0	648	6	US-10-369-493-35417	Sequence 35417, A
254	14.8	74.0	4017	9	US-10-450-763-17577	Sequence 17577, A	c 327	14.4	72.0	648	6	US-10-369-493-35417	Sequence 35417, A
255	14.8	74.0	4017	9	US-10-450-763-30299	Sequence 30299, A	c 328	14.4	72.0	648	6	US-10-369-493-35417	Sequence 35417, A
256	14.8	74.0	4140	7	US-10-437-963-40089	Sequence 40089, A	c 329	14.4	72.0	675	5	US-10-027-632-33918	Sequence 33918, A
257	14.8	74.0	5425	7	US-10-437-963-79004	Sequence 79004, A	c 330	14.4	72.0	675	5	US-10-027-632-33918	Sequence 33918, A
258	14.8	74.0	5665	7	US-10-437-963-40088	Sequence 40088, A	c 331	14.4	72.0	676	6	US-10-357-930-31442	Sequence 31442, A
259	14.8	74.0	5808	7	US-10-437-963-80868	Sequence 80868, A	c 332	14.4	72.0	676	6	US-10-357-930-31442	Sequence 31442, A
260	14.8	74.0	5919	5	US-10-194-163-584	Sequence 584, App	c 333	14.4	72.0	704	8	US-10-653-047-7738	Sequence 7738, Ap
261	14.8	74.0	6063	7	US-10-437-963-78933	Sequence 78933, A	c 334	14.4	72.0	704	8	US-10-653-047-7738	Sequence 7738, Ap
262	14.8	74.0	6063	7	US-10-437-963-79070	Sequence 79070, A	c 335	14.4	72.0	734	6	US-10-027-632-149720	Sequence 149720, A
263	14.8	74.0	6073	7	US-10-437-963-82381	Sequence 82381, A	c 336	14.4	72.0	734	6	US-10-027-632-149720	Sequence 149720, A
264	14.8	74.0	6321	5	US-10-194-163-311	Sequence 311, App	c 337	14.4	72.0	755	6	US-10-220-381-32	Sequence 32, Appl
265	14.8	74.0	33963	6	US-10-292-798-617	Sequence 617, App	c 338	14.4	72.0	760	7	US-10-425-115-6467	Sequence 6467, Ap
266	14.8	74.0	37561	5	US-10-087-192-1129	Sequence 1129, Ap	c 339	14.4	72.0	801	8	US-10-425-115-6467	Sequence 6467, Ap
267	14.8	74.0	61635	9	US-10-737-082-105	Sequence 105, App	c 340	14.4	72.0	810	7	US-10-437-963-31758	Sequence 31758, A
268	14.8	74.0	61635	9	US-10-737-082-118	Sequence 118, App	c 341	14.4	72.0	1122	9	US-10-792-571-17	Sequence 17, Appl
269	14.8	74.0	61635	9	US-10-765-790-105	Sequence 105, App	c 342	14.4	72.0	1185	6	US-10-369-493-46606	Sequence 46606, A
270	14.8	74.0	61635	9	US-10-765-790-118	Sequence 118, App	c 343	14.4	72.0	1197	9	US-10-492-928A-393	Sequence 393, App
271	14.8	74.0	80815	7	US-10-322-281-486	Sequence 486, App	c 344	14.4	72.0	1314	3	US-09-738-626-2681	Sequence 2681, Ap
272	14.8	74.0	105413	6	US-10-427-923-3	Sequence 3, Appli	c 345	14.4	72.0	1330	3	US-09-746-660A-11	Sequence 11, Appl
273	14.8	74.0	105413	10	US-11-124-082-3	Sequence 3, Appli	c 346	14.4	72.0	1366	6	US-10-172-118-719	Sequence 719, App
274	14.8	74.0	166181	8	US-10-723-860-1452	Sequence 1452, Ap	c 347	14.4	72.0	1366	6	US-10-342-887-719	Sequence 719, App
275	14.8	74.0	166181	8	US-10-723-860-3281	Sequence 3281, Ap	c 348	14.4	72.0	1419	5	US-10-205-823-151	Sequence 151, App
276	14.8	74.0	167163	7	US-10-394-948-31	Sequence 31, Appl	c 349	14.4	72.0	1419	5	US-10-205-823-151	Sequence 151, App
277	14.8	74.0	290040	8	US-10-850-591-31	Sequence 31, Appl	c 350	14.4	72.0	1459	6	US-10-369-493-29355	Sequence 29355, A
278	14.8	74.0	290040	8	US-10-850-591-31	Sequence 31, Appl	c 351	14.4	72.0	1459	6	US-10-369-493-29355	Sequence 29355, A
279	14.8	74.0	312477	7	US-10-317-883A-12	Sequence 12, Appl	c 352	14.4	72.0	1467	9	US-10-450-763-20218	Sequence 20218, A
280	14.8	74.0	493631	5	US-10-087-192-205	Sequence 205, App	c 353	14.4	72.0	1470	5	US-10-037-270-846	Sequence 846, App
281	14.8	74.0	1754382	9	US-10-501-282-6651	Sequence 6651, Ap	c 354	14.4	72.0	1470	5	US-10-117-722-846	Sequence 846, App
282	14.4	72.0	25	8	US-10-719-900-709979	Sequence 709979, A	c 355	14.4	72.0	1479	9	US-10-122-851-846	Sequence 846, App
283	14.4	72.0	41	7	US-10-377-972C-8	Sequence 8, Appli	c 356	14.4	72.0	1491	3	US-10-282-122A-33800	Sequence 33800, A
284	14.4	72.0	70	9	US-10-432-928A-370	Sequence 370, App	c 357	14.4	72.0	1498	8	US-09-746-660A-9	Sequence 9, Appli
285	14.4	72.0	96	3	US-09-294-093B-5076	Sequence 5076, Ap	c 358	14.4	72.0	1519	8	US-10-494-675-129	Sequence 129, App
286	14.4	72.0	121	6	US-10-307-005-81	Sequence 81, Appl	c 359	14.4	72.0	1519	8	US-10-425-115-9411	Sequence 9411, A
287	14.4	72.0	121	6	US-10-307-005-82	Sequence 82, Appl	c 360	14.4	72.0	1635	9	US-10-369-493-33712	Sequence 33712, A
288	14.4	72.0	121	6	US-10-307-005-85	Sequence 85, Appl	c 361	14.4	72.0	1635	9	US-10-498-788-71	Sequence 71, Appl
289	14.4	72.0	121	6	US-10-307-005-86	Sequence 86, Appl	c 362	14.4	72.0	1759	7	US-09-974-300-6059	Sequence 6059, Ap
290	14.4	72.0	121	6	US-10-307-005-125	Sequence 125, App	c 363	14.4	72.0	1917	7	US-10-437-963-80891	Sequence 80891, A
291	14.4	72.0	121	6	US-10-307-005-126	Sequence 126, App	c 364	14.4	72.0	1926	6	US-10-369-493-24030	Sequence 24030, A
292	14.4	72.0	121	6	US-10-307-005-193	Sequence 193, App	c 365	14.4	72.0	2020	6	US-10-094-749-562	Sequence 562, App
293	14.4	72.0	121	6	US-10-307-005-194	Sequence 194, App	c 366	14.4	72.0	2022	6	US-10-369-493-25660	Sequence 25660, A
294	14.4	72.0	121	6	US-10-307-005-265	Sequence 265, App	c 367	14.4	72.0	2159	5	US-10-027-632-97412	Sequence 97412, A
295	14.4	72.0	121	6	US-10-307-005-266	Sequence 266, App	c 368	14.4	72.0	2159	5	US-10-027-632-97412	Sequence 97412, A
296	14.4	72.0	121	6	US-10-307-005-281	Sequence 281, App	c 369	14.4	72.0	2178	3	US-09-974-300-1154	Sequence 1154, Ap
297	14.4	72.0	121	6	US-10-307-005-282	Sequence 282, App	c 370	14.4	72.0	2181	5	US-10-027-632-110239	Sequence 110239, A
298	14.4	72.0	281	7	US-10-424-599-66038	Sequence 66038, A	c 371	14.4	72.0	2181	5	US-10-027-632-110239	Sequence 110239, A
299	14.4	72.0	385	3	US-09-867-701-6528	Sequence 6528, Ap	c 372	14.4	72.0	2226	7	US-10-302-172-355	Sequence 355, App
300	14.4	72.0	452	9	US-10-450-763-20216	Sequence 20216, A	c 373	14.4	72.0	2226	7	US-10-302-172-355	Sequence 355, App
301	14.4	72.0	469	7	US-10-242-535A-35304	Sequence 35304, A	c 374	14.4	72.0	2241	6	US-10-369-493-26296	Sequence 26296, A
302	14.4	72.0	469	7	US-10-085-783A-35904	Sequence 35904, A	c 375	14.4	72.0	2305	7	US-10-437-963-16106	Sequence 16106, A
303	14.4	72.0	485	7	US-10-437-963-23624	Sequence 23624, A	c 376	14.4	72.0	2336	7	US-10-437-963-16106	Sequence 16106, A
304	14.4	72.0	511	4	US-09-925-065A-645610	Sequence 645610, A	c 377	14.4	72.0	2466	5	US-10-002-600-9	Sequence 9, Appli
305	14.4	72.0	511	4	US-09-925-065A-645611	Sequence 645611, A	c 378	14.4	72.0	2472	6	US-10-369-493-33131	Sequence 33131, A
306	14.4	72.0	534	3	US-09-764-891-1745	Sequence 1746, Ap	c 379	14.4	72.0	2502	6	US-10-369-493-41362	Sequence 41362, A
307	14.4	72.0	553	5	US-10-027-632-51486	Sequence 51486, A	c 380	14.4	72.0	2531	7	US-10-287-226-73	Sequence 73, Appl
308	14.4	72.0	553	5	US-10-027-632-53744	Sequence 53744, A	c 381	14.4	72.0	2631	10	US-11-097-143-12248	Sequence 12248, A
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310	14.4	72.0	553	5	US-10-027-632-321352	Sequence 321352, A	c 383	14.4	72.0	2727	3	US-09-880-107-3748	Sequence 3748, Ap
311	14.4	72.0	553	6	US-10-027-632-51486	Sequence 51486, A	c 384	14.4	72.0	2727	3	US-10-287-226-69	Sequence 69, Appl
312	14.4	72.0	553	6	US-10-027-632-53744	Sequence 53744, A	c 385	14.4	72.0	2727	7	US-10-776-827-36	Sequence 36, Appl
313	14.4	72.0	553	6	US-10-027-632-313768	Sequence 313768, A	c 386	14.4	72.0	2761	8	US-10-335-053-12	Sequence 12, Appl
314	14.4	72.0	553	6	US-10-027-632-321352	Sequence 321352, A	c 387	14.4	72.0	2763	9	US-10-450-763-8121	Sequence 8121, Ap
315	14.4	72.0	553	7	US-10-424-599-3347	Sequence 3347, Ap	c 388	14.4	72.0	2775	7	US-10-287-226-75	Sequence 75, Appl
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Run on: February 15, 2006, 18:08:01 ; Search time 148.284 Seconds
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	18.4	92.0	2300	7	US-10-509-121-3
6	18.4	92.0	2301	7	US-10-509-121-1
7	18.4	92.0	2301	7	US-10-509-121-38
8	17.4	87.0	1788	11	US-11-152-903-7
9	17.4	87.0	1788	11	US-11-152-903-9
10	17.4	87.0	1788	11	US-11-152-903-11
11	17.4	87.0	2279	7	US-10-509-121-37
12	17.4	87.0	2294	7	US-10-509-121-5
13	17.4	87.0	2294	7	US-10-509-121-7
14	15.4	77.0	2479	7	US-10-750-185-57062
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17	15.2	76.0	1404	7	US-10-509-121-36
18	15.2	76.0	2331	11	US-11-031-737A-4
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20	15.2	76.0	5128	11	US-11-031-737A-3
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23	14.8	74.0	14.8	23	US-10-310-914A-1167940
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c 97	13.8	69.0	201	7	US-10-995-561-3579	Sequence 3579, Ap	c 170	13.6	68.0	50484	6	US-10-893-483-63	Sequence 63, Appl
c 98	13.8	69.0	201	7	US-10-995-561-3988	Sequence 3988, Ap	c 171	13.6	68.0	79122	11	US-11-117-187-200	Sequence 200, Appl
c 99	13.8	69.0	201	7	US-10-995-561-25172	Sequence 25172, A	c 172	13.6	68.0	160226	11	US-11-121-086-29	Sequence 29, Appl
c 100	13.8	69.0	795	11	US-11-136-527-3337	Sequence 3337, Ap	c 173	13.6	68.0	165627	11	US-11-121-086-89	Sequence 89, Appl
c 101	13.8	69.0	795	11	US-11-136-527-7433	Sequence 7433, Ap	c 174	13.6	68.0	172111	11	US-11-121-086-28	Sequence 28, Appl
c 102	13.8	69.0	964	7	US-10-454-137-1078	Sequence 107, Appl	c 175	13.6	68.0	176760	11	US-11-121-086-51	Sequence 51, Appl
c 103	13.8	69.0	1111	7	US-10-750-185-38728	Sequence 38728, A	c 176	13.6	68.0	184868	11	US-11-121-086-88	Sequence 88, Appl
c 104	13.8	69.0	1111	7	US-10-750-623-38728	Sequence 38728, A	c 177	13.6	68.0	190882	11	US-11-121-086-69	Sequence 69, Appl
c 105	13.8	69.0	1728	7	US-10-750-185-42417	Sequence 42417, A	c 178	13.6	68.0	214000	11	US-11-121-086-69	Sequence 69, Appl
c 106	13.8	69.0	1728	7	US-10-750-623-42417	Sequence 42417, A	c 179	13.6	68.0	214000	11	US-11-096-191-1	Sequence 1, Appl
c 107	13.8	69.0	1737	11	US-11-091-883-28	Sequence 28, Appl	c 180	13.6	68.0	321019	7	US-11-095-561-13204	Sequence 13204, A
c 108	13.8	69.0	1737	11	US-11-091-883-174	Sequence 174, Appl	c 181	13.6	68.0	1080000	7	US-10-928-446A-1	Sequence 1, Appl
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c 110	13.8	69.0	2991	8	US-11-072-512-1527	Sequence 1527, Ap	c 183	13.6	68.0	1080000	7	US-10-928-446A-181	Sequence 181, Appl
c 111	13.8	69.0	91561	11	US-11-124-368A-2896	Sequence 2896, Ap	c 184	13.6	68.0	1080000	7	US-10-928-446A-185	Sequence 185, Appl
c 112	13.8	69.0	93112	7	US-10-995-561-13234	Sequence 13234, A	c 185	13.6	68.0	1080000	7	US-10-928-446A-187	Sequence 187, Appl
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c 122	13.6	68.0	600	7	US-10-750-623-3318	Sequence 3318, Ap	c 195	13.4	67.0	19	10	US-11-175-859-36300	Sequence 36300, A
c 123	13.6	68.0	600	7	US-10-750-623-20610	Sequence 20610, A	c 196	13.4	67.0	50	11	US-11-175-859-112676	Sequence 112676,
c 124	13.6	68.0	659	7	US-10-750-185-40489	Sequence 40489, A	c 197	13.4	67.0	497	11	US-11-128-061-3015	Sequence 3015, Ap
c 125	13.6	68.0	659	7	US-10-750-623-40489	Sequence 40489, A	c 198	13.4	67.0	497	11	US-11-128-061-6657	Sequence 6657, Ap
c 126	13.6	68.0	736	7	US-10-750-185-47432	Sequence 47432, A	c 199	13.4	67.0	497	11	US-11-128-049-3015	Sequence 3015, Ap
c 127	13.6	68.0	736	7	US-10-750-623-47432	Sequence 47432, A	c 200	13.4	67.0	497	11	US-11-128-049-6657	Sequence 6657, Ap
c 128	13.6	68.0	966	11	US-11-055-822-259	Sequence 259, Appl	c 201	13.4	67.0	1373	7	US-10-750-185-46147	Sequence 46147, A
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c 131	13.6	68.0	1194	11	US-11-097-589-52	Sequence 52, Appl	c 204	13.4	67.0	2038	7	US-10-750-623-36540	Sequence 36540, A
c 132	13.6	68.0	1272	11	US-11-052-554A-761	Sequence 761, Appl	c 205	13.4	67.0	2186	8	US-11-072-512-146	Sequence 146, Appl
c 133	13.6	68.0	1341	7	US-10-750-185-25598	Sequence 25598, A	c 206	13.4	67.0	2308	7	US-10-510-386-81	Sequence 81, Appl
c 134	13.6	68.0	1341	7	US-10-750-623-25598	Sequence 25598, A	c 207	13.4	67.0	2415	7	US-10-467-657-1929	Sequence 1929, Ap
c 135	13.6	68.0	1352	7	US-10-750-185-27965	Sequence 27965, A	c 208	13.4	67.0	2641	8	US-11-072-512-478	Sequence 478, Ap
c 136	13.6	68.0	1352	7	US-10-750-623-27965	Sequence 27965, A	c 209	13.4	67.0	3204	8	US-11-072-512-1112	Sequence 1112, Ap
c 137	13.6	68.0	1400	11	US-11-136-527-8078	Sequence 8078, Ap	c 210	13.4	67.0	3417	11	US-11-080-991-47	Sequence 47, Appl
c 138	13.6	68.0	1400	11	US-11-128-061-4734	Sequence 4734, Ap	c 211	13.4	67.0	4099	7	US-10-750-185-33532	Sequence 33532, A
c 139	13.6	68.0	1400	11	US-11-128-049-4734	Sequence 4734, Ap	c 212	13.4	67.0	4099	7	US-10-750-623-33532	Sequence 33532, A
c 140	13.6	68.0	1482	7	US-10-750-185-43098	Sequence 43098, A	c 213	13.4	67.0	5009	7	US-10-955-054A-25	Sequence 25, Appl
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c 142	13.6	68.0	1888	11	US-11-136-527-3982	Sequence 3982, Ap	c 215	13.4	67.0	48203	7	US-10-995-561-13378	Sequence 13378, A
c 143	13.6	68.0	1968	11	US-11-136-527-465	Sequence 465, Appl	c 216	13.4	67.0	98862	11	US-11-121-086-76	Sequence 76, Appl
c 144	13.6	68.0	2015	11	US-11-079-122-8	Sequence 8, Appl	c 217	13.4	67.0	157230	11	US-11-112-908-64	Sequence 64, Appl
c 145	13.6	68.0	2024	11	US-11-079-122-9	Sequence 9, Appl	c 218	13.4	67.0	159660	11	US-11-112-908-43	Sequence 43, Appl
c 146	13.6	68.0	2024	11	US-11-079-122-10	Sequence 10, Appl	c 219	13.4	67.0	162013	11	US-11-150-888-30	Sequence 30, Appl
c 147	13.6	68.0	2185	8	US-11-072-512-1675	Sequence 1675, Ap	c 220	13.4	67.0	170508	11	US-11-112-908-62	Sequence 62, Appl
c 148	13.6	68.0	2253	8	US-11-072-512-658	Sequence 658, Appl	c 221	13.4	67.0	173115	11	US-11-112-908-65	Sequence 65, Appl
c 149	13.6	68.0	2431	11	US-11-000-688-366	Sequence 366, Appl	c 222	13.4	67.0	179597	11	US-11-121-086-91	Sequence 91, Appl
c 150	13.6	68.0	2458	11	US-11-128-061-1092	Sequence 1092, Ap	c 223	13.4	67.0	189252	11	US-11-121-086-54	Sequence 54, Appl
c 151	13.6	68.0	2458	11	US-11-128-061-1092	Sequence 1092, Ap	c 224	13.4	67.0	207600	11	US-11-112-908-31	Sequence 31, Appl
c 152	13.6	68.0	2732	7	US-10-750-185-29160	Sequence 29160, A	c 225	13.4	67.0	260209	7	US-10-933-025-23	Sequence 23, Appl
c 153	13.6	68.0	2732	7	US-10-750-623-29160	Sequence 29160, A	c 226	13.2	66.0	25	11	US-11-121-849-12244	Sequence 12244, A
c 154	13.6	68.0	2768	6	US-10-063-703-15	Sequence 15, Appl	c 227	13.2	66.0	25	11	US-11-121-849-60095	Sequence 60095, A
c 155	13.6	68.0	2768	11	US-11-102-240-15	Sequence 15, Appl	c 228	13.2	66.0	25	11	US-11-121-849-149975	Sequence 149975, A
c 156	13.6	68.0	2815	8	US-11-072-512-75	Sequence 75, Appl	c 229	13.2	66.0	25	11	US-11-121-849-310714	Sequence 310714,
c 157	13.6	68.0	2843	7	US-10-750-185-64398	Sequence 64398, A	c 230	13.2	66.0	25	11	US-11-121-849-310714	Sequence 310714,
c 158	13.6	68.0	2843	7	US-10-750-623-64398	Sequence 64398, A	c 231	13.2	66.0	25	11	US-11-121-849-315867	Sequence 315867,
c 159	13.6	68.0	2917	7	US-10-131-826A-343	Sequence 343, Appl	c 232	13.2	66.0	120	7	US-11-136-527-348787	Sequence 348787,
c 160	13.6	68.0	2917	11	US-11-176-863-1	Sequence 1, Appl	c 233	13.2	66.0	120	7	US-10-467-657-753	Sequence 753, Appl
c 161	13.6	68.0	2938	7	US-10-750-185-32298	Sequence 32298, A	c 234	13.2	66.0	124	11	US-11-124-367A-4815	Sequence 4815, Ap
c 162	13.6	68.0	2938	7	US-10-750-623-32298	Sequence 32298, A	c 235	13.2	66.0	198	7	US-11-124-367A-4814	Sequence 4814, Ap
c 163	13.6	68.0	3132	7	US-10-475-204-35	Sequence 35, Appl	c 236	13.2	66.0	200	11	US-10-467-657-889	Sequence 889, Appl
c 164	13.6	68.0	3132	11	US-11-136-527-2850	Sequence 2850, Ap	c 237	13.2	66.0	201	7	US-10-995-561-2066	Sequence 2066, Ap
c 165	13.6	68.0	7251	11	US-11-136-527-3027	Sequence 3027, Ap	c 238	13.2	66.0	201	7	US-10-995-561-2069	Sequence 2069, Ap
c 166	13.6	68.0	8833	7	US-10-876-787-5	Sequence 5, Appl	c 239	13.2	66.0	201	7	US-10-995-561-2071	Sequence 2071, Ap
c 167	13.6	68.0	16326	7	US-10-995-561-13416	Sequence 13416, A	c 240	13.2	66.0	201	7	US-10-995-561-19893	Sequence 19893, A

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242	13.2	66.0	201	7	US-10-995-561-20463	Sequence 20463, A	C 315	13.2	66.0	1521	11	US-11-151-847-1	Sequence 1, Appli
243	13.2	66.0	201	7	US-10-995-561-25996	Sequence 25996, A	C 316	13.2	66.0	1752	11	US-11-076-733-12	Sequence 12, Appli
244	13.2	66.0	201	7	US-10-995-561-34264	Sequence 34264, A	C 317	13.2	66.0	1784	7	US-10-750-185-31514	Sequence 31514, A
245	13.2	66.0	201	7	US-10-995-561-50404	Sequence 50404, A	C 318	13.2	66.0	1784	7	US-10-750-185-31514	Sequence 31514, A
246	13.2	66.0	201	7	US-10-995-561-55667	Sequence 55667, A	C 319	13.2	66.0	1849	11	US-11-136-527-565	Sequence 565, App
247	13.2	66.0	201	7	US-10-995-561-70253	Sequence 70253, A	C 320	13.2	66.0	1915	10	US-11-090-878-21	Sequence 21, Appli
248	13.2	66.0	201	7	US-10-995-561-73250	Sequence 73250, A	C 321	13.2	66.0	1962	7	US-10-750-185-44857	Sequence 44857, A
249	13.2	66.0	201	11	US-11-124-3678A-18762	Sequence 18762, A	C 322	13.2	66.0	1962	7	US-10-750-623-44857	Sequence 44857, A
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251	13.2	66.0	201	11	US-11-124-3678A-3154	Sequence 3154, App	C 324	13.2	66.0	1972	7	US-10-750-623-28416	Sequence 28416, A
252	13.2	66.0	201	11	US-11-124-3678A-4736	Sequence 4736, App	C 325	13.2	66.0	1975	10	US-11-090-878-19	Sequence 19, Appli
253	13.2	66.0	201	11	US-11-124-3678A-4737	Sequence 4737, App	C 326	13.2	66.0	1978	10	US-11-090-878-17	Sequence 17, Appli
254	13.2	66.0	201	11	US-11-124-3678A-4761	Sequence 4761, App	C 327	13.2	66.0	2020	7	US-10-750-185-25849	Sequence 25849, A
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261	13.2	66.0	201	11	US-11-124-3678A-26419	Sequence 26419, A	C 334	13.2	66.0	2178	11	US-11-098-686-8844	Sequence 8844, App
262	13.2	66.0	240	7	US-10-467-657-8017	Sequence 8017, App	C 335	13.2	66.0	2187	10	US-11-090-878-7	Sequence 7, Appli
263	13.2	66.0	456	7	US-10-623-155-79	Sequence 79, Appli	C 336	13.2	66.0	2242	11	US-11-124-3678A-241	Sequence 241, App
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266	13.2	66.0	581	11	US-11-128-061-5040	Sequence 5040, App	C 339	13.2	66.0	2451	11	US-11-136-527-3325	Sequence 3325, App
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268	13.2	66.0	581	11	US-11-128-049-1398	Sequence 1398, App	C 341	13.2	66.0	2525	7	US-10-750-185-41773	Sequence 41773, A
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281	13.2	66.0	991	7	US-10-750-623-40498	Sequence 40498, A	C 354	13.2	66.0	3905	7	US-10-750-185-29868	Sequence 29868, A
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287	13.2	66.0	1084	7	US-10-750-185-48623	Sequence 48623, A	C 360	13.2	66.0	4431	7	US-10-750-185-30584	Sequence 30584, A
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289	13.2	66.0	1080	11	US-11-037-243-55	Sequence 55, Appli	C 362	13.2	66.0	4432	7	US-10-995-561-40	Sequence 40, Appli
290	13.2	66.0	1152	7	US-10-793-626-2025	Sequence 2025, App	C 363	13.2	66.0	4627	6	US-10-893-483-19	Sequence 19, Appli
291	13.2	66.0	1172	7	US-10-750-185-53378	Sequence 53378, A	C 364	13.2	66.0	6174	7	US-10-118-590-47	Sequence 47, Appli
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296	13.2	66.0	1241	7	US-10-750-623-29829	Sequence 29829, A	C 369	13.2	66.0	15720	11	US-11-108-172-1058	Sequence 1058, App
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301	13.2	66.0	1400	11	US-11-136-527-7421	Sequence 7421, App	C 374	13.2	66.0	37507	7	US-10-522-037-2	Sequence 2, Appli
302	13.2	66.0	1418	7	US-10-750-185-33465	Sequence 33465, A	C 375	13.2	66.0	62705	11	US-11-124-3678A-5059	Sequence 5059, App
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304	13.2	66.0	1459	11	US-11-084-508-3	Sequence 3, Appli	C 377	13.2	66.0	91561	11	US-11-124-3678A-2896	Sequence 2896, App
305	13.2	66.0	1462	7	US-10-750-185-35177	Sequence 35177, A	C 378	13.2	66.0	95604	11	US-11-124-3678A-5097	Sequence 5097, App
306	13.2	66.0	1462	7	US-10-750-623-35177	Sequence 35177, A	C 379	13.2	66.0	100000	11	US-11-124-368A-2883	Sequence 2883, App
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 752.521 Seconds
(without alignments)
1586.285 Million cell updates/sec

Title: US-10-805-973-3

Perfect score: 21

Sequence: 1 cgtgcgcctatgatccgaac 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 500 summaries

Database :

GenEmbl.*

1: gb_ba.*

2: gb_in.*

3: gb_env.*

4: gb_on.*

5: gb_ov.*

6: gb_pat.*

7: gb_ph.*

8: gb_pr.*

9: gb_ro.*

10: gb_sts.*

11: gb_sy.*

12: gb_un.*

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14: gb_htg.*

15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	87.6	121	6	AX323971 Sequence
2	18.4	87.6	121	6	AX323972 Sequence
3	18.4	87.6	370	6	AX705263 Sequence
4	18.4	87.6	370	6	AX705264 Sequence
5	18.4	87.6	370	6	AX705265 Sequence
6	18.4	87.6	575	6	CQ969918 Sequence
7	18.4	87.6	617	15	AY273827 Triticum
8	18.4	87.6	1524	6	AX705275 Sequence
9	18.4	87.6	1524	6	AX705276 Sequence
10	18.4	87.6	1524	6	AX705277 Sequence
11	18.4	87.6	1524	6	AX705305 Sequence
12	18.4	87.6	1626	15	AF059600 Hordeum v
13	18.4	87.6	1672	6	AX705273 Sequence
14	18.4	87.6	1674	6	AX705285 Sequence
15	18.4	87.6	1674	6	AX705287 Sequence
16	18.4	87.6	1674	6	AX705289 Sequence
17	18.4	87.6	1674	6	AX705291 Sequence
18	18.4	87.6	1674	6	AX705295 Sequence

19	18.4	87.6	1674	6	AX705297 Sequence
20	18.4	87.6	1674	6	AX705299 Sequence
21	18.4	87.6	1674	6	AX705301 Sequence
22	18.4	87.6	1674	6	AX705303 Sequence
23	18.4	87.6	1675	6	AX705271 Sequence
24	18.4	87.6	1677	6	AX705293 Sequence
25	18.4	87.6	1710	6	CQ969938 Sequence
26	18.4	87.6	1723	6	CQ969920 Sequence
27	18.4	87.6	1756	6	CQ969924 Sequence
28	18.4	87.6	1768	6	CQ969922 Sequence
29	18.4	87.6	1788	6	CQ969916 Sequence
30	18.4	87.6	1788	6	CQ969926 Sequence
31	18.4	87.6	1788	6	CQ969928 Sequence
32	18.4	87.6	1788	6	CQ969929 Sequence
33	18.4	87.6	1788	6	CQ969930 Sequence
34	18.4	87.6	1788	6	CQ969931 Sequence
35	18.4	87.6	1788	6	CQ969932 Sequence
36	18.4	87.6	1788	6	CQ969934 Sequence
37	18.4	87.6	1788	6	CQ969936 Sequence
38	18.4	87.6	1797	15	AY210405
39	18.4	87.6	1797	15	AY210406
40	18.4	87.6	1797	15	AY210407
41	18.4	87.6	1797	15	AY210408
42	18.4	87.6	1797	15	AY210409
43	17.4	82.9	121	6	AX323931 Sequence
44	17.4	82.9	121	6	AX323932 Sequence
45	17.4	82.9	121	6	AX324115 Sequence
46	17.4	82.9	121	6	AX324116 Sequence
47	17.4	82.9	182	6	AX300481 Sequence
48	17.4	82.9	182	6	AX300483 Sequence
49	17.4	82.9	188	6	AX300484 Sequence
50	17.4	82.9	208	6	AX300480 Sequence
51	17.4	82.9	208	6	AX300482 Sequence
52	17.4	82.9	352	15	AK058963
53	17.4	82.9	528	6	AX300487 Sequence
54	17.4	82.9	1095	6	AX300472 Sequence
55	17.4	82.9	1916	6	CS052502 Sequence
56	17.4	82.9	1925	6	CS052500 Sequence
57	17.4	82.9	1935	6	AX705283 Sequence
58	17.4	82.9	1936	6	CS052508 Sequence
59	17.4	82.9	1940	6	CS052498 Sequence
60	17.4	82.9	1956	6	CS052506 Sequence
61	17.4	82.9	1985	6	AX300491 Sequence
62	17.4	82.9	1986	6	CS052504 Sequence
63	17.4	82.9	1986	6	AX300485 Sequence
64	17.4	82.9	1986	6	AX300489 Sequence
65	17.4	82.9	2233	15	AY885675
66	17.4	82.9	2251	15	AY885673
67	17.4	82.9	2279	6	BD169500 A gene co
68	17.4	82.9	2279	6	BD169500
69	17.4	82.9	2279	15	AX300475 Sequence
70	17.4	82.9	2286	15	AB049823
71	17.4	82.9	2301	6	AY885674
72	17.4	82.9	2301	6	AX300473 Sequence
73	17.4	82.9	110000	15	AB049822
74	17.4	82.9	145423	15	AP008208
75	17.4	82.9	153252	15	AP005841
76	16.8	80.0	1369	1	NMUPEN22
77	16.8	80.0	655	15	AY094592S2
78	16.8	80.0	1988	5	DQ054840
79	16.8	80.0	2002	15	AF487459
80	16.8	80.0	2002	15	AF488771
81	16.8	80.0	2784	9	AY208852
82	16.8	80.0	3775	9	BC089380
83	16.8	80.0	5185	9	AK172954
84	16.8	80.0	6288	9	AY429676
85	16.8	80.0	79236	15	ATAC009176
86	16.8	80.0	86358	14	AP003739
87	16.8	80.0	106467	1	BA005105
88	16.8	80.0	110000	1	BA000339
89	16.8	80.0	110000	15	AP008215
90	16.8	80.0	110000	15	AP008210
91	16.8	80.0	110000	15	AP008210_070

92	16.8	80.0	110000	15	AP008213_202	Continuation (203	c 165	16.2	77.1	125855	15	AC151823	AC151823 Medicago
93	16.8	80.0	121054	15	ATAC013483	AC013483 Arabidops	c 166	16.2	77.1	145040	8	AC013471	AC013471 Homo sapi
94	16.8	80.0	141676	15	OSJN00194	AL662990 Oryza sat	c 167	16.2	77.1	150507	9	AC124189	AC124189 Mus muscu
95	16.8	80.0	152485	14	AC152170	AL662990 Oryza sat	c 168	16.2	77.1	157080	14	AL358856	AL358856 Homo sapi
96	16.8	80.0	158901	9	AC159974	AC159974 Mus muscu	c 169	16.2	77.1	157382	5	BX255915	BX255915 Zebrafish
97	16.8	80.0	159288	9	AC131187	AC131187 Mus muscu	c 170	16.2	77.1	161235	8	AL1139239	AL1139239 Human DNA
98	16.8	80.0	166475	15	OSJN00031	AL606590 Oryza sat	c 171	16.2	77.1	161360	2	AC105292	AC105292 Drosophil
99	16.8	80.0	168874	15	AP005738	AP005738 Oryza sat	c 172	16.2	77.1	161652	9	AC140353	AC140353 Mus muscu
100	16.8	80.0	178870	9	AC107846	AC107846 Mus muscu	c 173	16.2	77.1	162486	14	AC015643	AC015643 Homo sapi
101	16.8	80.0	179898	15	AP003827	AP003827 Oryza sat	c 174	16.2	77.1	164264	9	AC123619	AC123619 Mus muscu
102	16.8	80.0	206677	9	AC129085	AC129085 Mus muscu	c 175	16.2	77.1	169552	8	AC027673	AC027673 Homo sapi
103	16.8	80.0	211456	9	AL928926	AL928926 Mus muscu	c 176	16.2	77.1	176502	14	AC134706	AC134706 Rattus no
104	16.8	80.0	224490	14	AC157072	AC157072 Bos tauru	c 177	16.2	77.1	183111	9	AC166572	AC166572 Mus muscu
105	16.8	80.0	250599	14	AC113696	AC113696 Rattus no	c 178	16.2	77.1	184276	9	AC115917	AC115917 Mus muscu
106	16.8	80.0	265620	14	AC111226	AC111226 Rattus no	c 179	16.2	77.1	186323	8	AC009405	AC009405 Homo sapi
107	16.8	80.0	301235	1	AE016799	AE016799 Vibrio vu	c 180	16.2	77.1	189409	14	AC121617	AC121617 Rattus no
108	16.4	78.1	624	10	BV334538	BV334538 S230P691F	c 181	16.2	77.1	200085	14	AC016818	AC016818 Homo sapi
109	16.4	78.1	1591	9	AF305501	AF305501 Mus muscu	c 182	16.2	77.1	214648	14	AC105570	AC105570 Rattus no
110	16.4	78.1	1921	8	AK129607	AK129607 Homo sapi	c 183	16.2	77.1	222587	14	AC109744	AC109744 Rattus no
111	16.4	78.1	2301	4	PTGPSEL	L39075 Sus scrofa	c 184	16.2	77.1	232820	14	AC127714	AC127714 Rattus no
112	16.4	78.1	2636	15	AF762116	AF762116 Chlamydom	c 185	16.2	77.1	235597	14	AC113768	AC113768 Rattus no
113	16.4	78.1	2650	4	AF163766	AF163766 Sus scrof	c 186	16.2	77.1	238587	14	AC096955	AC096955 Rattus no
114	16.4	78.1	110000	1	AP006618_24	Continuation (25 o	c 187	16.2	77.1	239370	14	AC096076	AC096076 Rattus no
115	16.4	78.1	110000	1	BA000022_21	Continuation (22 o	c 188	16.2	77.1	244740	14	AC095193	AC095193 Rattus no
116	16.4	78.1	110000	15	CR382131_12	Continuation (13 o	c 189	16.2	77.1	257451	14	AC098508	AC098508 Rattus no
117	16.4	78.1	163572	8	AC108897	AC108897 Homo sapi	c 190	16.2	77.1	259487	9	AL365322	AL365322 Mouse DNA
118	16.4	78.1	169814	8	AC093797	AC093797 Homo sapi	c 191	16.2	77.1	265372	14	AC137011	AC137011 Rattus no
119	16.4	78.1	183146	9	AC116697	AC116697 Mus muscu	c 192	16.2	77.1	269957	14	AC098530	AC098530 Rattus no
120	16.4	78.1	184392	14	AC155488	AC155488 Bos tauru	c 193	16.2	77.1	273693	14	AC112534	AC112534 Rattus no
121	16.4	78.1	184483	14	AC155873	AC155873 Bos tauru	c 194	16.2	77.1	274150	14	AC137454	AC137454 Rattus no
122	16.4	78.1	186895	9	AC115918	AC115918 Mus muscu	c 195	16.2	77.1	288721	2	AE003447	AE003447 Drosophil
123	16.4	78.1	189650	14	AC149863	AC149863 Papio anu	c 196	16.2	77.1	299134	14	AC128783	AC128783 Rattus no
124	16.4	78.1	198363	14	AC144410	AC144410 Mus muscu	c 197	16.2	77.1	300521	1	AE017153	AE017153 Haemophil
125	16.4	78.1	199981	9	AC157787	AC157787 Mus muscu	c 198	16.2	77.1	313143	14	AC120453	AC120453 Rattus no
126	16.4	78.1	213439	14	AC149849	AC149849 Papio anu	c 199	16.2	77.1	346161	1	BX842651	BX842651 Bdeliobv
127	16.4	78.1	236859	14	AC156185	AC156185 Bos tauru	c 200	16.2	77.1	349688	1	CR378671	CR378671 Photobact
128	16.4	78.1	236859	14	AC156185	AC156185 Bos tauru	c 201	16.2	77.1	349877	14	AC115218	AC115218 Rattus no
129	16.4	78.1	243280	14	AC111948	AC111948 Rattus no	c 202	16	76.2	121	6	AX323959	AX323959 Sequence
130	16.4	78.1	244277	14	AC124874	AC124874 Rattus no	c 203	16	76.2	121	6	AX323960	AX323960 Sequence
131	16.4	78.1	244389	14	AC111858	AC111858 Rattus no	c 204	16	76.2	121	6	AX324003	AX324003 Sequence
132	16.4	78.1	250522	14	AC094765	AC094765 Rattus no	c 205	16	76.2	121	6	AX324004	AX324004 Sequence
133	16.4	78.1	251941	14	AC105590	AC105590 Rattus no	c 206	16	76.2	121	6	AX324159	AX324159 Sequence
134	16.4	78.1	256868	14	AC128811	AC128811 Rattus no	c 207	16	76.2	121	6	AX324160	AX324160 Sequence
135	16.4	78.1	273457	14	AC120751	AC120751 Rattus no	c 208	16	76.2	362	15	AY124583S2	AY124583 Amaranthu
136	16.4	78.1	277885	14	AC107266	AC107266 Rattus no	c 209	16	76.2	362	15	AY124587	AY124587 Amaranthu
137	16.4	78.1	279959	14	AC118855	AC118855 Rattus no	c 210	16	76.2	362	15	AF484069	AF484069 Amaranthu
138	16.4	78.1	280005	14	AC119021	AC119021 Rattus no	c 211	16	76.2	447	15	DQ088148S2	DQ088148 Amaranthu
139	16.2	77.1	524	10	CR383811	CR383811 Arabidops	c 212	16	76.2	1137	6	CQ649922	CQ649922 Sequence
140	16.2	77.1	540	15	CNS019P2	AL111951 Botrytis	c 213	16	76.2	1140	6	AX606982	AX606982 Sequence
141	16.2	77.1	711	10	BV583071	BV583071 GS91P6274	c 214	16	76.2	1995	15	AF310684	AF310684 Lolium mu
142	16.2	77.1	771	10	BV564199	BV564199 gxt68E07.	c 215	16	76.2	2065	15	AF363369	AF363369 Amaranthu
143	16.2	77.1	832	10	BV560484	BV560484 qey62G10.	c 216	16	76.2	2065	15	AF363370	AF363370 Amaranthu
144	16.2	77.1	923	3	AY187356	AY187356 Unculture	c 217	16	76.2	2208	15	ASU55852	ASU55852 Amaranthu
145	16.2	77.1	1433	5	BC095198	BC095198 Danio rer	c 218	16	76.2	12685	6	AX602165	AX602165 Sequence
146	16.2	77.1	1653	15	AY093612	AY093612 Mycosphae	c 219	16	76.2	26842	8	AP006180	AP006180 Homo sapi
147	16.2	77.1	2076	15	AF121229	AF121229 Botryotin	c 220	16	76.2	28866	1	AE014196	AE014196 Streptoco
148	16.2	77.1	10271	1	AE014860	AE014860 Streptoco	c 221	16	76.2	37688	8	AC145110	AC145110 Homo sapi
149	16.2	77.1	12811	6	CQ576228	CQ576228 Sequence	c 222	16	76.2	42110	14	AC145111	AC145111 Homo sapi
150	16.2	77.1	13457	1	AE007303	AE007303 Sinorhizo	c 223	16	76.2	98657	8	AP006543	AP006543 Homo sapi
151	16.2	77.1	17863	1	AE004642	AE004642 Pseudomon	c 224	16	76.2	143050	1	SAG766843	AL766843 Streptoco
152	16.2	77.1	18352	6	CQ576227	CQ576227 Sequence	c 225	16	76.2	200300	9	AC101688	AC101688 Mus muscu
153	16.2	77.1	40150	14	AC020043	AC020043 Drosophil	c 226	16	76.2	349980	6	CQ654010	CQ654010 Sequence
154	16.2	77.1	44090	14	AC006784	AC006784 Caenorhab	c 227	16	76.2	349980	6	AX954527	AX954527 Sequence
155	16.2	77.1	46394	2	CBRG17D06	AC084511 Caenorhab	c 228	15.8	75.2	281	2	IDU62973	IDU62973 Ixodes damm
156	16.2	77.1	58496	14	AC101077	AC101077 Mus muscu	c 229	15.8	75.2	283	2	IDU62970	IDU62970 Ixodes damm
157	16.2	77.1	58496	14	AC101077	AC101077 Mus muscu	c 230	15.8	75.2	283	2	IDU62972	IDU62972 Ixodes damm
158	16.2	77.1	66626	2	AC006834	AC006834 Caenorhab	c 231	15.8	75.2	283	2	ISU62980	ISU62980 Ixodes scap
159	16.2	77.1	93579	14	CT005265_10	Continuation (11 o	c 232	15.8	75.2	283	2	ISU62984	ISU62984 Ixodes scap
160	16.2	77.1	101552	14	AP007391	AP007391 Lotus cor	c 233	15.8	75.2	284	2	IDU62971	IDU62971 Ixodes damm
161	16.2	77.1	110000	1	BX571966_24	Continuation (25 o	c 234	15.8	75.2	284	2	IDU62974	IDU62974 Ixodes damm
162	16.2	77.1	110000	1	CF000031_33	Continuation (34 o	c 235	15.8	75.2	284	2	IDU62975	IDU62975 Ixodes damm
163	16.2	77.1	110000	14	LMFLCHR26_3	Continuation (4 of	c 236	15.8	75.2	284	2	IDU62976	IDU62976 Ixodes damm
164	16.2	77.1	114664	15	AC130809	AC130809 Medicago	c 237	15.8	75.2	284	2	ISU62981	ISU62981 Ixodes scap

C 238	15.8	75.2	284	2	ISU62982	U62982 Ixodes scap	C 311	15.8	75.2	834	3	UPR7654	AJ007654 Unculture
C 239	15.8	75.2	284	2	ISU62983	U62983 Ixodes scap	C 312	15.8	75.2	838	3	AJ231320	AJ231320 Unculture
C 240	15.8	75.2	285	2	IDU62969	U62969 Ixodes damm	C 313	15.8	75.2	842	2	D88860	D88860 Ixodes pavl
C 241	15.8	75.2	285	2	ISU62977	U62977 Ixodes scap	C 314	15.8	75.2	842	2	D88861	D88861 Ixodes pavl
C 242	15.8	75.2	285	2	ISU62978	U62978 Ixodes scap	C 315	15.8	75.2	843	2	D88859	D88859 Ixodes pavl
C 243	15.8	75.2	285	2	ISU62979	U62979 Ixodes scap	C 316	15.8	75.2	844	2	D88862	D88862 Ixodes pavl
C 244	15.8	75.2	344	3	UNA311428	AJ311428 Unculture	C 317	15.8	75.2	860	3	AY690067	AY690067 Unculture
C 245	15.8	75.2	348	3	UNA311438	AJ311438 Unculture	C 318	15.8	75.2	860	3	AY189644	AY189644 Unculture
C 246	15.8	75.2	400	3	AY143783	AY143783 Unculture	C 319	15.8	75.2	861	13	AY390412	AY390412 Fibropapi
C 247	15.8	75.2	406	3	AY321225	AY321225 Unculture	C 320	15.8	75.2	861	13	AY390416	AY390416 Fibropapi
C 248	15.8	75.2	419	3	AY437572	AY437572 Unculture	C 321	15.8	75.2	863	2	IXORD8NA	L22265 Ixodes damm
C 249	15.8	75.2	427	3	AY488098	AY488098 Unculture	C 322	15.8	75.2	875	2	D88886	D88886 Ixodes tanu
C 250	15.8	75.2	450	3	AY930163	AY930163 Unculture	C 323	15.8	75.2	876	2	ABO32834	ABO32834 Ixodes pe
C 251	15.8	75.2	450	3	AY930292	AY930292 Unculture	C 324	15.8	75.2	876	2	ABO32835	ABO32835 Ixodes pe
C 252	15.8	75.2	450	3	AY930401	AY930401 Unculture	C 325	15.8	75.2	876	2	ABO32836	ABO32836 Ixodes pe
C 253	15.8	75.2	451	3	AY930301	AY930301 Unculture	C 326	15.8	75.2	876	2	D88885	D88885 Ixodes tanu
C 254	15.8	75.2	451	3	AY930339	AY930339 Unculture	C 327	15.8	75.2	876	2	D88887	D88887 Ixodes tanu
C 255	15.8	75.2	452	3	AY930158	AY930158 Unculture	C 328	15.8	75.2	877	2	ABO32837	ABO32837 Ixodes pe
C 256	15.8	75.2	502	3	AY932443	AY932443 Unculture	C 329	15.8	75.2	879	2	ABO32838	ABO32838 Ixodes pe
C 257	15.8	75.2	507	6	AR101737	AR101737 Sequence	C 330	15.8	75.2	943	15	AK060449	AK060449 Oryza sat
C 258	15.8	75.2	507	6	AR437542	AR437542 Sequence	C 331	15.8	75.2	960	3	ABO94185	ABO94185 Unculture
C 259	15.8	75.2	515	3	AY493213	AY493213 Unculture	C 332	15.8	75.2	962	3	AY943019	AY943019 Unculture
C 260	15.8	75.2	531	3	AY493221	AY493221 Unculture	C 333	15.8	75.2	962	3	AY943036	AY943036 Unculture
C 261	15.8	75.2	533	15	AB112476	AB112476 Atriplex	C 334	15.8	75.2	992	3	AY897262	AY897262 Unculture
C 262	15.8	75.2	537	2	AF019643	AF019643 Ixodes ri	C 335	15.8	75.2	1005	6	AR548011	AR548011 Sequence
C 263	15.8	75.2	552	3	AY391012	AY391012 Unculture	C 336	15.8	75.2	1011	1	AY550036	AY550036 Veillonel
C 264	15.8	75.2	556	3	AY668749	AY668749 Unculture	C 337	15.8	75.2	1028	3	DQ083725	DQ083725 Unculture
C 265	15.8	75.2	586	3	AF507540	AF507540 Unculture	C 338	15.8	75.2	1029	3	DQ083705	DQ083705 Unculture
C 266	15.8	75.2	613	3	AY742846	AY742846 Unculture	C 339	15.8	75.2	1037	2	AY920148	AY920148 Unculture
C 267	15.8	75.2	620	3	DQ014941	DQ014941 Unculture	C 340	15.8	75.2	1066	3	AF530329	AF530329 Unculture
C 268	15.8	75.2	626	3	AF507719	AF507719 Unculture	C 341	15.8	75.2	1066	3	AY919969	AY919969 Unculture
C 269	15.8	75.2	675	6	CQ750233	CQ750233 Sequence	C 342	15.8	75.2	1119	6	BD164875	BD164875 Novel pol
C 270	15.8	75.2	687	3	AY668613	AY668613 Unculture	C 343	15.8	75.2	1119	6	AX122758	AX122758 Sequence
C 271	15.8	75.2	698	3	AY668744	AY668744 Unculture	C 344	15.8	75.2	1140	3	AF201991	AF201991 Unculture
C 272	15.8	75.2	768	3	AY851860	AY851860 Unculture	C 345	15.8	75.2	1160	1	AF421132	AF421132 Aphanirom
C 273	15.8	75.2	771	10	BV604059	BV604059 S217Pe163	C 346	15.8	75.2	1166	2	AB105168	AB105168 Ixodes ac
C 274	15.8	75.2	782	3	AY627523	AY627523 Unculture	C 347	15.8	75.2	1196	3	AY592112	AY592112 Unculture
C 275	15.8	75.2	782	3	AY689550	AY689550 Unculture	C 348	15.8	75.2	1200	2	IXORDBNB	L22266 Ixodes damm
C 276	15.8	75.2	787	3	AY694689	AY694689 Unculture	C 349	15.8	75.2	1200	2	IXORDBNB	L22271 Ixodes damm
C 277	15.8	75.2	808	2	D88880	D88880 Ixodes rici	C 350	15.8	75.2	1201	2	IXORDBNH	L22272 Ixodes damm
C 278	15.8	75.2	809	2	D88881	D88881 Ixodes rici	C 351	15.8	75.2	1203	2	IXORDBNH	L22268 Ixodes damm
C 279	15.8	75.2	813	2	D88882	D88882 Ixodes rici	C 352	15.8	75.2	1204	2	IXORDBNF	L22270 Ixodes damm
C 280	15.8	75.2	817	2	D88835	D88835 Ixodes asan	C 353	15.8	75.2	1204	2	IXORDBNJ	L22274 Ixodes scap
C 281	15.8	75.2	817	2	D88836	D88836 Ixodes asan	C 354	15.8	75.2	1205	2	IXORDBNJ	L22275 Ixodes scap
C 282	15.8	75.2	817	2	D88838	D88838 Ixodes asan	C 355	15.8	75.2	1205	2	IXORDBNB	L22278 Ixodes paci
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C 289	15.8	75.2	821	2	D88871	D88871 Ixodes pers	C 362	15.8	75.2	1245	6	AX066269	AX066269 Sequence
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C 291	15.8	75.2	822	2	D88877	AY434018 Unculture	C 364	15.8	75.2	1247	2	IXORDBNM	L22277 Ixodes paci
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c 385	15.8	75.2	1357	3	AY922066	AY922066 Unculture	458	15.8	75.2	11049	1	AE009152	AE009152 Agrobacte
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c 388	15.8	75.2	1375	1	AY433639	AY433639 Veillonel	461	15.8	75.2	20941	2	AE093425	AE093425 Drosophil
c 389	15.8	75.2	1382	1	AY571668	AY571668 Veillonel	462	15.8	75.2	37731	8	HSB1D7	Z82173 Human DNA s
c 390	15.8	75.2	1382	3	AY984660	AY984660 Unculture	c 463	15.8	75.2	57031	15	AL6012244	AL6012244 Arabidops
c 391	15.8	75.2	1382	3	AY984660	AY984660 Unculture	c 464	15.8	75.2	57031	8	AL606807	AL606807 Human DNA
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c 393	15.8	75.2	1392	15	AY626046	AY626046 Euglena v	466	15.8	75.2	67434	14	AC090801	AC090801 Homo sapi
c 394	15.8	75.2	1392	15	AF289251	AF289251 Phacus pl	467	15.8	75.2	75171	8	AL512663	AL512663 Human DNA
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c 417	15.8	75.2	1459	3	AY995761	AY995761 Veillonel	490	15.8	75.2	114032	5	AX572104	AX572104 Zebrafish
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c 419	15.8	75.2	1459	3	AY995763	AY995763 Veillonel	c 492	15.8	75.2	118733	14	AP003885	AP003885 Oryza sat
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c 444	15.8	75.2	1513	1	VPRNA16S	X84005 V.parvula 1							
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c 448	15.8	75.2	1527	3	AF499900	AF499900 Unculture							
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c 452	15.8	75.2	1556	3	DQ016721	DQ016721 Unculture							
c 453	15.8	75.2	1559	1	AF305930	AF305930 Lactobaci							
c 454	15.8	75.2	1560	3	DQ016720	DQ016720 Unculture							
c 455	15.8	75.2	2169	15	AY056449	AY056449 Arabidops							
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ALIGNMENTS

RESULT 1	AX323971	Sequence 109 from Patent WO0192512.	121 bp	DNA	linear	PAT 02-SEP-2002
LOCUS	AX323971	Sequence 109 from Patent WO0192512.				
DEFINITION	AX323971	Sequence 109 from Patent WO0192512.				
ACCESSION	AX323971	Sequence 109 from Patent WO0192512.				
VERSION	AX323971.1	GI:18094722				
KEYWORDS	Hordeum vulgare					
SOURCE	Hordeum vulgare					
ORGANISM	Hordeum vulgare					
REFERENCE	1	Knies, E.B., Gampert, H.B., Rice, M.C. and Kim, J.				
AUTHORS	Knies, E.B., Gampert, H.B., Rice, M.C. and Kim, J.					
TITLE	Targeted chromosomal genomic alterations in plants using modified single stranded oligonucleotides					
JOURNAL	Patent: WO 0192512-A 109 06-DEC-2001;					
FEATURES	UNIVERSITY OF DELAWARE (US)					
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ORIGIN						

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 177.692 Seconds
(without alignments)
787.645 Million cell updates/sec

Title: US-10-805-973-3

Perfect score: 21
Sequence: 1 cgtgctgcctatgcgaac 21

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 500 summaries

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- 12: Geneseqn2004as.*
- 13: Geneseqn2004bs.*
- 14: Geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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34	18.4	87.6	1788	14	ADV11366	Adv11366 Durum whe
35	18.4	87.6	1788	14	ADV11368	Adv11368 Durum whe
36	18.4	87.6	1788	14	ADV11364	Adv11364 Durum whe
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70	16.8	80.0	3525	13	ADG95276	Adg95276 Murine th
71	16.8	80.0	3525	13	ADV68133	Adv68133 Biologica
72	16.8	80.0	5262	14	ADV97753	Adv97753 cDNA sequ
73	16.2	77.1	390	9	ADB10663	Adb10663 Alloioococ
74	16.2	77.1	1173	9	ADB10665	Adb10665 Alloioococ
75	16.2	77.1	2127	11	ABD09588	Abd09588 Pseudomon
76	16.2	77.1	2130	4	AAS51464	Aas51464 Pseudomon
77	16.2	77.1	2130	8	ACA19472	Aca19472 Prokaryot
78	16.2	77.1	2130	13	ADS14559	Ads14559 Pseudomon
79	16.2	77.1	2874	11	ABD09508	Abd09508 Pseudomon
80	16.2	77.1	12811	4	ABL04497	Ab104497 Drosophil
81	16.2	77.1	18352	4	ABL04496	Ab104496 Drosophil
82	16.2	77.1	110000	9	ADL12064	Adl12064 Continuation (12 o
83	16.2	77.1	110000	11	ACN43984_2	Acn43984_2 Continuation (3 of
84	16	76.2	121	6	ABK24781	Abk24781 Glyphosat
85	16	76.2	121	6	ABK24937	Abk24937 Glyphosat
86	16	76.2	121	6	ABK24782	Abk24782 Glyphosat
87	16	76.2	121	6	ABK24737	Abk24737 Glyphosat
88	16	76.2	121	6	ABK24738	Abk24738 Glyphosat
89	16	76.2	121	6	ABK24938	Abk24938 Glyphosat
90	16	76.2	121	12	ADN43629	Adn43629 Mutant ce
91	16	76.2	121	12	ADN43472	Adn43472 Mutant ce
92	16	76.2	121	12	ADN43428	Adn43428 Mutant ce

c 93	16	76.2	121	12	ADN43628	Adn43628 Mutant ce	166	15.2	72.4	20194	10	ACD19392	AcD19392 CDNA enco
c 94	16	76.2	121	12	ADN43473	Adn43473 Mutant ce	167	15.2	72.4	20566	10	ACD19390	AcD19390 CDNA enco
c 95	16	76.2	121	12	ADN43429	Adn43429 Mutant ce	168	15.2	72.4	20839	12	AD124480	Adi24480 Human mod
c 96	16	76.2	521	8	ABX98502	Abx98502 Rice albu	169	15.2	72.4	20839	14	ADX25988	Novel cel
c 97	16	76.2	1137	6	ABN69483	Abn69483 Streptoco	c 170	15.2	72.4	20846	12	ADQ21807	Adq21807 Human sof
c 98	16	76.2	1140	13	ADN63770	Adn63770 Streptoco	171	15.2	72.4	20880	10	ACD19391	AcD19391 CDNA enco
c 99	16	76.2	1846	13	ADR23157	Adr23157 Smooth pi	172	15.2	72.4	20881	12	ADQ17208	Adq17208 Human sof
c 100	16	76.2	1930	13	ADR23159	Adr23159 Smooth pi	173	15.2	72.4	21166	13	ABD32560	Abd32560 Mouse can
c 101	16	76.2	12685	13	ADV87700	Adv87700 Streptoco	174	15.2	72.4	22804	9	ADA03002	Ada03002 Human p2d
c 102	16	76.2	12685	13	ADV78953	Adv78953 Streptoco	175	15.2	72.4	22804	10	ADB72740	Adb72740 Human p2d
c 103	16	76.2	110000	6	ABN71527_00	Abn71527 Streptoco	176	15.2	72.4	22804	10	ADC85482	Adc85482 Human fzd
c 104	16	76.2	110000	13	ADV81204_01	Adv81204 Streptoco	177	15.2	72.4	22804	10	ADM74597	Adm74597 Human car
c 105	15.8	75.2	507	3	AA53561	Aa53561 Human goo	178	15.2	72.4	23254	13	ADR66976	Adr66976 Human can
c 106	15.8	75.2	507	4	AAH26475	Aah26475 Adrenal g	179	15.2	72.4	23254	14	ADZ12735	Adz12735 Human can
c 107	15.8	75.2	507	6	ABX14174	Abx14174 Human inc	c 180	15.2	72.4	33963	10	ADC86164	Adc86164 Human gpc
c 108	15.8	75.2	507	12	ADN59110	Adn59110 Human goo	c 181	15.2	72.4	57561	11	ACN44600	Acn44600 Mouse gen
c 109	15.8	75.2	843	11	ACL28054	Acl28054 Rice abio	c 182	15.2	72.4	61635	14	AEA61195	Aea61195 Human bki
c 110	15.8	75.2	943	14	AE667494	Ae667494 Rice geno	c 183	15.2	72.4	61635	14	AEA61208	Aea61208 Human DFI
c 111	15.8	75.2	1119	5	AAH67639	Aah67639 C glutami	c 184	15.2	72.4	80393	13	ADT89084	Adt89084 Arabidops
c 112	15.8	75.2	1242	4	AAH71070	Aah71070 C glutam	c 185	15.2	72.4	80815	13	ABD33381	Abd33381 Human can
c 113	15.8	75.2	1329	14	ADV98268	Adv98268 Partial s	c 186	15.2	72.4	110000	6	ABQ69245_23	Abq69245_23 Continuation (24 o
c 114	15.8	75.2	1476	10	ADE64052	Ade64052 Human gen	c 187	15.2	72.4	110000	6	ABA03041_22	Aba03041_22 Continuation (23 o
c 115	15.8	75.2	4063	10	ADE54255	Ade54255 Rat gene	c 188	15.2	72.4	110000	10	ABS56454_03	Abs56454_03 Continuation (4 of
c 116	15.8	75.2	105413	12	ADI36512	Adi36512 Human kin	c 189	15.2	72.4	110000	11	ADM27081_05	Adm27081_05 Continuation (6 of
c 117	15.8	75.2	349980	5	AAH68532	Aah68532 C glutami	c 190	15.2	72.4	122157	14	ADZ13040_	Adz13040 Murine ca
c 118	15.4	73.3	1185	13	ADT48168	Adt48168 Bacterial	c 191	15.2	72.4	175378	14	ADV09445	Adv09445 Human ORP
c 119	15.4	73.3	2178	6	ABK73863	Abk73863 Bacillus	c 192	15.2	72.4	213251	6	ABQ67193	Abq67193 Listeria
c 120	15.2	72.4	450	9	ACH41302	Ach41302 Human foe	c 193	15.2	72.4	349989	10	ADC86916	Adc86916 Human gpc
c 121	15.2	72.4	469	11	ADP65972	Adp65972 Mouse EST	c 194	15.2	71.4	24	6	ABQ09313	Abq09313 Oligonuc1
c 122	15.2	72.4	617	6	ABK90152	Abk90152 DNA enco	c 195	15.2	71.4	24	6	ABQ09272	Abq09272 Oligonuc1
c 123	15.2	72.4	617	12	ADI26251	Adi26251 Mouse Ste	c 196	15.2	71.4	24	6	ABQ02698	Abq02698 Oligonuc1
c 124	15.2	72.4	649	12	ADJ75741	Adj75741 Marker ge	c 197	15.2	71.4	1566	10	ACF69531	Acf69531 Photorhab
c 125	15.2	72.4	649	14	ADZ62681	Adz62681 Murine il	c 198	15.2	71.4	2426	2	AAO4542	Aao4542 Bacillus
c 126	15.2	72.4	656	14	ADM82161	Adm82161 MAPK9 ma	c 199	15.2	71.4	2426	2	AAO4542	Aao4542 Bacillus
c 127	15.2	72.4	656	13	ABD32561	Abd32561 Mouse can	c 200	15.2	71.4	2735	2	AAQ11072	Aaq11072 B.scearot
c 128	15.2	72.4	786	9	ADA30850	Ada30850 DNA enco	c 201	15.2	71.4	110000	10	ACF67367_25	Acf67367_25 o
c 129	15.2	72.4	1035	10	ADC93750	Adc93750 E. faeciu	c 202	15.2	71.4	110000	10	ACF67367_25	Acf67367_25 o
c 130	15.2	72.4	1068	8	ACF74770	Acf74770 Staphyloc	c 203	15.2	71.4	110000	10	ACF65386_3	Acf65386_3 Continuation (4 of
c 131	15.2	72.4	1086	3	AAF07487	Aaf07487 Fusarium	c 204	14.8	70.5	60	13	ADC53973	Adc53973 Eucalyptu
c 132	15.2	72.4	1086	13	ADU51528	Adu51528 Fusarium	c 205	14.8	70.5	70	10	ADC36502	Adc36502 Weed cont
c 133	15.2	72.4	1086	14	ADZ89531	Adz89531 Fusarium	c 206	14.8	70.5	84	1	AAAN6100	Aaan6100 Promoter
c 134	15.2	72.4	1134	10	ABX06162	Abx06162 S. pneumo	c 207	14.8	70.5	84	1	AAAN6100	Aaan6100 Promoter
c 135	15.2	72.4	1134	13	ADT49950	Adt49950 S. pneumon	c 208	14.8	70.5	207	2	AAV19502	Aav19502 Retrovira
c 136	15.2	72.4	1137	13	ADK45471	Adk45471 Streptoco	c 209	14.8	70.5	210	2	AAV19503	Aav19503 Retrovira
c 137	15.2	72.4	1140	8	ABZ42404	Abz42404 Streptoco	c 210	14.8	70.5	210	2	AAV19501	Aav19501 Retrovira
c 138	15.2	72.4	1140	13	ADR92249	Adr92249 Novel S.	c 211	14.8	70.5	210	2	AAV19506	Aav19506 Retrovira
c 139	15.2	72.4	1140	14	AEA56119	Aea56119 Streptoco	c 212	14.8	70.5	267	4	AAH05995	Aah05995 Human cDN
c 140	15.2	72.4	1406	13	ADS49435	Ads49435 Bacterial	c 213	14.8	70.5	394	12	ADM41048	Adm41048 Human mam
c 141	15.2	72.4	2000	8	ADA71634	Ada71634 Rice gene	c 214	14.8	70.5	397	9	ACH20720	Ach20720 Human adu
c 142	15.2	72.4	2176	4	ABL09243	Ab109243 Drosophil	c 215	14.8	70.5	452	5	AAH84412	Aah84412 DNA enco
c 143	15.2	72.4	2317	4	ABL09065	Ab109065 Drosophil	c 216	14.8	70.5	486	12	ADM41047	Adm41047 Human mam
c 144	15.2	72.4	2326	4	ABL18583	Ab118583 Drosophil	c 217	14.8	70.5	488	9	ABX78281	Abx78281 Human imi
c 145	15.2	72.4	3809	13	ADX60485	Adx60485 Plant ful	c 218	14.8	70.5	488	12	ADM41046	Adm41046 Human mam
c 146	15.2	72.4	3914	12	ADO35564	Ado35564 Novel mou	c 219	14.8	70.5	557	13	ADQ58536	Adq58536 Novel can
c 147	15.2	72.4	4017	5	AAH79973	Aah79973 DNA enco	c 220	14.8	70.5	586	9	ABX78282	Abx78282 Human imi
c 148	15.2	72.4	4017	5	AAH79973	Aah79973 DNA enco	c 221	14.8	70.5	586	9	ABX78282	Abx78282 Human imi
c 149	15.2	72.4	4052	13	ADR08030	Adr08030 Full leng	c 222	14.8	70.5	621	13	ADO83776	Ado83776 Plant ful
c 150	15.2	72.4	4320	2	AAAT73388	Aat73388 DNA enco	c 223	14.8	70.5	634	9	ABX78283	Abx78283 Human imi
c 151	15.2	72.4	4580	4	ABL09064	Ab109064 Drosophil	c 224	14.8	70.5	681	4	ABL28799	Ab128799 Drosophil
c 152	15.2	72.4	4950	4	ABL18582	Ab118582 Drosophil	c 225	14.8	70.5	698	4	AAH03196	Aah03196 Human cDN
c 153	15.2	72.4	5022	4	ABL09242	Ab109242 Drosophil	c 226	14.8	70.5	726	11	ADJ11689	Adj11689 Rice DNA
c 154	15.2	72.4	5700	14	ADM94099	Adm94099 Staphyloc	c 227	14.8	70.5	755	5	AAH75159	Aah75159 Nucleotid
c 155	15.2	72.4	6336	6	ABL67080	Ab167080 Thyroid c	c 228	14.8	70.5	900	13	ADR51256	Adr51256 Anti-biof
c 156	15.2	72.4	6336	6	ABN95039	Abn95039 Gene #153	c 229	14.8	70.5	964	4	AAF71191	Aaf71191 Corynebac
c 157	15.2	72.4	6730	2	AAV74362	Aav74362 Staphyloc	c 230	14.8	70.5	1178	13	ADX65310	Adx65310 Plant ful
c 158	15.2	72.4	7174	2	AAV52322	Aav52322 Streptoco	c 231	14.8	70.5	1197	10	ADC36525	Adc36525 Weed cont
c 159	15.2	72.4	9443	12	ADQ17277	Adq17277 Human sof	c 232	14.8	70.5	1383	11	ABD12593	Abd12593 Pseudomon
c 160	15.2	72.4	9495	12	ADQ22031	Adq22031 Human sof	c 233	14.8	70.5	1470	4	AAI58954	Aai58954 Human pol
c 161	15.2	72.4	10580	4	AAK69427	Aak69427 Human imi	c 234	14.8	70.5	1470	5	ADQ99176	Adq99176 DNA enco
c 162	15.2	72.4	10614	4	AAH46259	Aah46259 DNA enco	c 235	14.8	70.5	1470	9	ADM48936	Adm48936 Novel hum
c 163	15.2	72.4	17200	8	AAH37025	Aah37025 Human mus	c 236	14.8	70.5	1626	11	ADM07041	Adm07041 Aspergill
c 164	15.2	72.4	17200	8	ABX60013	Abx60013 cDNA enco	c 237	14.8	70.5	1626	11	ADM07040	Adm07040 Aspergill
c 165	15.2	72.4	17200	12	ADJ30763	Adj30763 Human mus	c 238	14.8	70.5	1629	11	ADM07153	Adm07153 Aspergill

C 239	14.8	70.5	1629	11	ADM07154	Adm07154 Aspergill	312	14.6	69.5	1107	2	AAT76896	Aat76896 Brassica
C 240	14.8	70.5	1635	13	ADSS8038	AdS8038 Bacterial	C 313	14.6	69.5	1110	2	ABQ0189	Abq0189 M. capsul
C 241	14.8	70.5	1749	11	ABD12451	Abd12451 Pseudomon	314	14.6	69.5	1120	2	AAV58304	AAV58304 Brassica
C 242	14.8	70.5	1780	10	ABV75862	Abv75862 Human pot	315	14.6	69.5	1120	3	AAC61419	Aac61419 Genomic D
C 243	14.8	70.5	1924	13	ABD32981	Abd32981 Mouse can	316	14.6	69.5	1120	14	AEb66243	Aeb66243 Rice geno
C 244	14.8	70.5	1946	13	ABD32982	Abd32982 Mouse can	317	14.6	69.5	1143	11	ACH96045	Ach96045 Klebsiell
C 245	14.8	70.5	2013	14	ADZ62366	Adz62366 Murine S1	C 318	14.6	69.5	1149	12	ADJ39122	Adj39122 Plant CDN
C 246	14.8	70.5	2061	13	ABD32983	Abd32983 Mouse can	C 319	14.6	69.5	1160	8	ABZ36142	Abz36142 Human sec
C 247	14.8	70.5	2075	4	AAH18687	Aah18687 Human CDN	320	14.6	69.5	1188	6	ABN69484	Abn69484 Streptoco
C 248	14.8	70.5	2077	13	ABD32979	Abd32979 Mouse can	C 321	14.6	69.5	1206	11	ACH96026	Ach96026 Klebsiell
C 249	14.8	70.5	2118	10	ADG28830	Adg28830 Pseudom	322	14.6	69.5	1209	13	ADO81959	Ado81959 Plant ful
C 250	14.8	70.5	2213	4	ABL26173	AbL26173 Drosophil	C 323	14.6	69.5	1365	13	ADT16818	Adt16818 Plant CDN
C 251	14.8	70.5	2250	10	ADF82215	Adf82215 Leukaemia	324	14.6	69.5	1374	13	ADA84958	Ada84958 Bacterial
C 252	14.8	70.5	2272	13	ABD32980	Abd32980 Mouse can	325	14.6	69.5	1644	13	ABL26127	AbL26127 Drosophil
C 253	14.8	70.5	2445	13	ADR87167	Adr87167 Fusobacte	C 326	14.6	69.5	1677	13	ADS57244	AdS57244 Bacterial
C 254	14.8	70.5	2601	5	AAH67629	Aah67629 C. glutami	C 327	14.6	69.5	1702	13	ADX33816	Adx33816 Plant ful
C 255	14.8	70.5	2679	11	ADM07152	Adm07152 Aspergill	328	14.6	69.5	1713	8	ACA45303	Aca45303 Prokaryot
C 256	14.8	70.5	2724	4	AAH71189	Aah71189 Corynebac	C 329	14.6	69.5	2000	8	ADA71553	Ada71553 Rice gene
C 257	14.8	70.5	2731	10	ADD13644	Add13644 C. glutam	330	14.6	69.5	2102	14	ADZ61842	Adz61842 Murine 18
C 258	14.8	70.5	2745	4	ABL28798	AbL28798 Drosophil	C 331	14.6	69.5	2406	6	ABA95862	AbA95862 Human zin
C 259	14.8	70.5	2762	9	ACH03834	Ach03834 Human CDN	332	14.6	69.5	2430	2	AAQ73844	Aaq73844 P. occult
C 260	14.8	70.5	2762	9	ACH03834	Ach03834 Human CDN	333	14.6	69.5	2526	2	ABK89301	AbK89301 Human EXT
C 261	14.8	70.5	2817	5	AAH67629	Aah67629 C. glutami	C 334	14.6	69.5	2526	2	ABK89301	AbK89301 Human EXT
C 262	14.8	70.5	3102	11	ABD00578	Abd00578 Klebsiell	C 335	14.6	69.5	2646	13	ADT46131	Adt46131 Bacterial
C 263	14.8	70.5	3169	12	ADK70293	Adk70293 Respirato	336	14.6	69.5	3068	2	AAT16274	Aat16274 Pyrodicti
C 264	14.8	70.5	3183	10	ADD29599	Add29599 Human tum	C 337	14.6	69.5	3644	4	ABL26126	AbL26126 Drosophil
C 265	14.8	70.5	3201	14	ADZ49676	Adz49676 Insulin s	C 338	14.6	69.5	4400	4	ABL18665	AbL18665 Drosophil
C 266	14.8	70.5	3359	14	ADZ74250	Adz74250 Corynebac	339	14.6	69.5	4473	4	ABL02030	AbL02030 Drosophil
C 267	14.8	70.5	4739	5	AAH84367	Aah84367 DNA encod	C 340	14.6	69.5	4708	4	RAK73842	Rak73842 Human imm
C 268	14.8	70.5	4894	12	ADN38386	Adn38386 Novel hum	C 341	14.6	69.5	4777	4	ABL28633	AbL28633 Drosophil
C 269	14.8	70.5	5107	4	AAH18489	Aah18489 Human CDN	C 342	14.6	69.5	4782	4	ABL13001	AbL13001 Drosophil
C 270	14.8	70.5	5128	9	ABX78274	Abx78274 Human imi	343	14.6	69.5	4786	4	ABL10112	AbL10112 Drosophil
C 271	14.8	70.5	5132	11	ADN95739	Adn95739 Human man	344	14.6	69.5	4796	2	AAT76897	Aat76897 Cauliflow
C 272	14.8	70.5	5132	13	ACN37945	Acn37945 Human BEC	345	14.6	69.5	4816	3	AAV58305	Aav58305 Brassica
C 273	14.8	70.5	5132	13	ADP23236	Adp23236 PRO polyp	C 346	14.6	69.5	4816	3	AAV58305	Aav58305 Brassica
C 274	14.8	70.5	5344	4	AAH14375	Aah14375 Human CDN	C 347	14.6	69.5	4980	4	ABL07458	AbL07458 Drosophil
C 275	14.8	70.5	5466	4	ABL26172	AbL26172 Drosophil	348	14.6	69.5	5189	4	ABL09846	AbL09846 Drosophil
C 276	14.8	70.5	5606	6	ABN87810	Abn87810 Human ova	349	14.6	69.5	5854	2	AAV72378	Aav72378 Human exo
C 277	14.8	70.5	10924	13	ABD32977	Abd32977 Mouse can	350	14.6	69.5	6172	3	AAAL2734	AAa12734 cDNA ENO
C 278	14.8	70.5	14800	10	ABV75863	Abv75863 Human pot	351	14.6	69.5	6172	3	AAAL2734	AAa12734 cDNA ENO
C 279	14.8	70.5	16946	5	ABA20324	AbA20324 Human ner	352	14.6	69.5	6189	6	ABK83455	AbK83455 Human EXT
C 280	14.8	70.5	28564	10	ADD47117	Add47117 Rat gene	C 353	14.6	69.5	6639	6	ABK83455	AbK83455 Human EXT
C 281	14.8	70.5	28564	10	ADD47113	Add47113 Rat gene	C 354	14.6	69.5	7080	4	ABL13000	AbL13000 Drosophil
C 282	14.8	70.5	28564	10	ADD47117	Add47117 Rat gene	C 355	14.6	69.5	9145	6	ABL32889	AbL32889 Human imm
C 283	14.8	70.5	28564	10	ADD47111	Add47111 Rat gene	356	14.6	69.5	18877	4	ABL28632	AbL28632 Drosophil
C 284	14.8	70.5	28564	10	ADRB3334	Adrb3334 Rat gene	C 357	14.6	69.5	20013	13	ADT77129	Adt77129 Type II d
C 285	14.8	70.5	28564	10	ADRB3334	Adrb3334 Rat gene	358	14.6	69.5	30143	4	ABL18664	AbL18664 Drosophil
C 286	14.8	70.5	28564	10	ADRB3334	Adrb3334 Rat gene	359	14.6	69.5	36955	6	ABV73608	Abv73608 S. albulu
C 287	14.8	70.5	28564	10	ADRB3334	Adrb3334 Rat gene	C 360	14.6	69.5	53905	8	ACF30939	Acf30939 Rice cult
C 288	14.8	70.5	43865	13	ABD33215	Abd33215 Human can	361	14.6	69.5	53905	12	ADIO9998	Adi09998 Rice cult
C 289	14.8	70.5	104729	12	ADQ18615	Adq18615 Human sof	362	14.6	69.5	53905	14	ADV66784	Adv66784 Rice Chro
C 290	14.8	70.5	110000	4	AAI99682_06	Contiuation (7 of	363	14.6	69.5	76363	8	ACF30938	Acf30938 Rice cult
C 291	14.8	70.5	110000	4	AAI99683_06	Contiuation (7 of	364	14.6	69.5	76363	12	ADIO9997	Adi09997 Rice cult
C 292	14.8	70.5	146793	13	ABD32715	Abd32715 Mouse can	365	14.6	69.5	76363	12	ADK72433	Adk72433 Rice fert
C 293	14.8	70.5	166181	12	ADQ20461	Adq20461 Human sof	366	14.6	69.5	76363	14	ADV66783	Adv66783 Rice Chro
C 294	14.8	70.5	166181	12	ADQ20461	Adq20461 Human sof	367	14.6	69.5	110000	11	ADM27081_07	Adm27081 (8 of
C 295	14.8	70.5	167163	10	ADRB22948	Adrb22948 Human pvt	368	14.6	69.5	110000	14	ADZ45062	Adz45062 Human cho
C 296	14.8	70.5	20620	12	ADQ56277	Adq56277 Human pre	C 369	14.6	69.5	112414	6	ABL59091	AbL59091 Nucleotid
C 297	14.8	70.5	209484	11	ACN44126	Acn44126 Human gen	370	14.6	69.5	120644	14	ADZ13239	Adz13239 Human can
C 298	14.8	70.5	213300	14	ADRB0726	Adrb0726 Human RAL	C 371	14.6	69.5	121062	12	ADQ97313	Adq97313 Human can
C 299	14.8	70.5	312477	12	ADP69744	Adp69744 Human ROC	372	14.6	69.5	146733	12	ADQ97410	Adq97410 Mouse can
C 300	14.6	69.5	201	13	ADRB38663	Adrb38663 Human aut	C 373	14.6	69.5	165156	13	ADSB6459	Adsb6459 Human aut
C 301	14.6	69.5	328	4	AAAL35343	AaL35343 Human mus	C 374	14.6	69.5	167343	6	ABL64403	AbL64403 Stomach c
C 302	14.6	69.5	328	4	ABX58331	Abx58331 cDNA enco	C 375	14.6	69.5	167343	6	ABL67239	AbL67239 Thyroid c
C 303	14.6	69.5	328	12	ADJ28058	Adj28058 Human mus	C 376	14.6	69.5	238417	13	ABD32868	Abd32868 Human can
C 304	14.6	69.5	345	4	AAAL37045	AaL37045 Human mus	377	14.6	69.5	247544	12	ADQ59419	Adq59419 Human can
C 305	14.6	69.5	345	8	ABX60033	Abx60033 cDNA enco	C 378	14.6	69.5	247654	14	ADZ13712	Adz13712 Murine ca
C 306	14.6	69.5	439	8	ABX48850	Abx48850 Bovine ES	C 379	14.6	69.5	256157	11	ACN44650	Acn44650 Human gen
C 307	14.6	69.5	527	13	ACN48094	Acn48094 Cotton pr	C 380	14.6	69.5	256157	13	ABD33570	Abd33570 Human can
C 308	14.6	69.5	535	13	ACN46366	Acn46366 Cotton pr	381	14.4	68.6	29	3	ACG97833	Acg97833 Zymogen a
C 309	14.6	69.5	561	9	ACH41758	Ach41758 Human foe	C 382	14.4	68.6	29	4	AAFS5307	Aaf55307 PCR prime
C 310	14.6	69.5	708	8	ADA70673	Ada70673 Rice gene	383	14.4	68.6	41	10	ACF79780	Acf79780 Maize ace
C 311	14.6	69.5	933	13	ADT46216	Adt46216 Bacterial	C 384	14.4	68.6	41	10	ACF79779	Acf79779 Maize ace

C 385	14.4	68.6	41	10	ACF79781	Acf79781 Maize ace
C 386	14.4	68.6	60	6	ABN35996	Abn35996 Human apl
C 387	14.4	68.6	96	6	ABL75702	AbL75702 Corn tass
C 388	14.4	68.6	121	6	ABK24725	AbK24725 Glyphosat
C 389	14.4	68.6	121	6	ABK24922	AbK24922 Glyphosat
C 390	14.4	68.6	121	6	ABK24721	AbK24721 Glyphosat
C 391	14.4	68.6	121	6	ABK24834	AbK24834 Glyphosat
C 392	14.4	68.6	121	6	ABK24905	AbK24905 Glyphosat
C 393	14.4	68.6	121	6	ABK24921	AbK24921 Glyphosat
C 394	14.4	68.6	121	6	ABK24765	AbK24765 Glyphosat
C 395	14.4	68.6	121	6	ABK24833	AbK24833 Glyphosat
C 396	14.4	68.6	121	6	ABK24906	AbK24906 Glyphosat
C 397	14.4	68.6	121	6	ABK24766	AbK24766 Glyphosat
C 398	14.4	68.6	121	6	ABK24726	AbK24726 Glyphosat
C 399	14.4	68.6	121	6	ABK24722	AbK24722 Glyphosat
C 400	14.4	68.6	121	12	ADN43416	Adn43416 Mutant ce
C 401	14.4	68.6	121	12	ADN43417	Adn43417 Mutant ce
C 402	14.4	68.6	121	12	ADN43524	Adn43524 Mutant ce
C 403	14.4	68.6	121	12	ADN43412	Adn43412 Mutant ce
C 404	14.4	68.6	121	12	ADN43457	Adn43457 Mutant ce
C 405	14.4	68.6	121	12	ADN43525	Adn43525 Mutant ce
C 406	14.4	68.6	121	12	ADN43597	Adn43597 Mutant ce
C 407	14.4	68.6	121	12	ADN43612	Adn43612 Mutant ce
C 408	14.4	68.6	121	12	ADN43456	Adn43456 Mutant ce
C 409	14.4	68.6	121	12	ADN43596	Adn43596 Mutant ce
C 410	14.4	68.6	121	12	ADN43413	Adn43413 Mutant ce
C 411	14.4	68.6	121	12	ADN43613	Adn43613 Mutant ce
C 412	14.4	68.6	142	6	ABL63338	AbL63338 Breast ca
C 413	14.4	68.6	142	6	ABL65239	AbL65239 Lung canc
C 414	14.4	68.6	142	6	ABL64712	AbL64712 Lung canc
C 415	14.4	68.6	142	6	ABL62036	AbL62036 Colon ade
C 416	14.4	68.6	142	6	ABL66304	AbL66304 Lung canc
C 417	14.4	68.6	178	8	ADA05697	Ada05697 Human NOV
C 418	14.4	68.6	178	12	ADN62861	Adn62861 Human NOV
C 419	14.4	68.6	202	12	ACH88274	Ach88274 Human gen
C 420	14.4	68.6	288	8	ADA05689	Ada05689 Human NOV
C 421	14.4	68.6	288	12	ADN62853	Adn62853 Human NOV
C 422	14.4	68.6	326	12	ADP93981	Adp93981 Cotton ex
C 423	14.4	68.6	371	9	ACH50344	Ach50344 Human leu
C 424	14.4	68.6	371	9	ACH50483	Ach50483 Human leu
C 425	14.4	68.6	374	9	ACH50394	Ach50394 Human leu
C 426	14.4	68.6	385	6	ABL83550	AbL83550 Human ova
C 427	14.4	68.6	432	6	ABQ59879	Abq59879 Human col
C 428	14.4	68.6	436	8	ADA05699	Ada05699 Human NOV
C 429	14.4	68.6	436	12	ADN62863	Adn62863 Human NOV
C 430	14.4	68.6	437	10	ADK61199	Adk61199 Ovarian c
C 431	14.4	68.6	445	8	ADA05691	Ada05691 Human NOV
C 432	14.4	68.6	451	14	ACL60407	AcL60407 Human col
C 433	14.4	68.6	478	13	ACN47100	Acn47100 Cotton pr
C 434	14.4	68.6	484	8	ADA05687	Ada05687 Human NOV
C 435	14.4	68.6	484	12	ADN62851	Adn62851 Human NOV
C 436	14.4	68.6	492	4	AAK84595	Aak84595 Human imm
C 437	14.4	68.6	494	4	AAK84594	Aak84594 Human imm
C 438	14.4	68.6	534	4	AAK01745	AaK01745 Human rep
C 439	14.4	68.6	534	4	ABL97038	AbL97038 Human tes
C 440	14.4	68.6	535	8	ACC60276	Acc60276 Rice leaf
C 441	14.4	68.6	551	13	ACN47084	Acn47084 Cotton pr
C 442	14.4	68.6	581	14	ACH74574	Ach74574 Human gen
C 443	14.4	68.6	631	5	ABY01084	AbY01084 Human pro
C 444	14.4	68.6	648	13	ADS59743	AdS59743 Bacterial
C 445	14.4	68.6	648	13	ADS62762	AdS62762 Bacterial
C 446	14.4	68.6	654	5	ABV10253	Abv10253 Human pro
C 447	14.4	68.6	676	5	ABV40393	Abv40393 Human pro
C 448	14.4	68.6	676	5	ABV31424	Abv31424 Human pro
C 449	14.4	68.6	704	3	AAF15215	Aaf15215 Trichoder
C 450	14.4	68.6	704	13	ADU59256	AdU59256 Trichoder
C 451	14.4	68.6	704	14	ADZ97259	Adz97259 Trichoder
C 452	14.4	68.6	783	10	ADD09102	Add09102 Human kal
C 453	14.4	68.6	783	14	ADY52304	AdY52304 Kallikrei
C 454	14.4	68.6	792	2	AAK80905	Aak80905 Human cDN
C 455	14.4	68.6	809	5	AAK87560	Aak87560 DNA encod
C 456	14.4	68.6	845	8	ADA05701	Ada05701 Human NOV
C 457	14.4	68.6	845	12	ADN62865	Adn62865 Human NOV
C 458	14.4	68.6	868	3	AAZ44182	Aaz44182 Human neu
C 459	14.4	68.6	868	13	ADR72884	Adr72884 Human ova
C 460	14.4	68.6	905	2	AAZ11029	Aaz11029 Human aer
C 461	14.4	68.6	906	5	AAS76564	Aas76564 DNA encod
C 462	14.4	68.6	942	2	AAZ11030	Aaz11030 Human gen
C 463	14.4	68.6	988	6	ABZ35510	Abz35510 Human gen
C 464	14.4	68.6	990	11	ABD03685	Abd03685 Pseudomon
C 465	14.4	68.6	994	2	AAK87155	Aak87155 Human pro
C 466	14.4	68.6	994	6	ABZ35501	Abz35501 Human gen
C 467	14.4	68.6	999	2	AAZ34225	Aaz34225 Human PRO
C 468	14.4	68.6	999	3	AAC78556	Aac78556 Human PRO
C 469	14.4	68.6	999	4	AAS21441	Aas21441 Human cDN
C 470	14.4	68.6	999	4	AAC97467	Aac97467 Human ang
C 471	14.4	68.6	999	6	ABL88107	AbL88107 Human PRO
C 472	14.4	68.6	999	6	ABK28589	AbK28589 Human DRO
C 473	14.4	68.6	999	6	ABL95596	AbL95596 Human ang
C 474	14.4	68.6	999	8	ACA63793	Aca63793 Novel hum
C 475	14.4	68.6	999	8	ACA03800	Aca03800 cDNA enco
C 476	14.4	68.6	999	8	ACA71957	Aca71957 Human sec
C 477	14.4	68.6	999	8	ABX89338	Abx89338 DNA encod
C 478	14.4	68.6	999	8	ABX92597	Abx92597 cDNA enco
C 479	14.4	68.6	999	8	ACD41992	Acd41992 Human sec
C 480	14.4	68.6	999	8	ACA66338	Aca66338 Human cDN
C 481	14.4	68.6	999	8	ACA04221	Aca04221 Human cDN
C 482	14.4	68.6	999	9	ADA45914	Ada45914 Novel hum
C 483	14.4	68.6	999	9	ADA76345	Ada76345 Human PRO
C 484	14.4	68.6	999	9	ADA18995	Ada18995 Human PRO
C 485	14.4	68.6	999	9	ADA61618	Ada61618 Homo bapi
C 486	14.4	68.6	999	9	ADB19403	AdB19403 Novel hum
C 487	14.4	68.6	999	9	ADB27944	AdB27944 cDNA enco
C 488	14.4	68.6	999	9	ADA86423	Ada86423 Novel hum
C 489	14.4	68.6	999	9	ADB15987	AdB15987 Human PRO
C 490	14.4	68.6	999	9	ADA47773	Ada47773 Human PRO
C 491	14.4	68.6	999	9	ADA67568	Ada67568 Human PRO
C 492	14.4	68.6	999	9	ADB30575	AdB30575 cDNA enco
C 493	14.4	68.6	999	9	ADA85871	Ada85871 Novel hum
C 494	14.4	68.6	999	9	ADA97083	Ada97083 Human PRO
C 495	14.4	68.6	999	9	ADA79387	Ada79387 Human PRO
C 496	14.4	68.6	999	9	ADA87526	Ada87526 Novel hum
C 497	14.4	68.6	999	9	ADB16728	AdB16728 Human PRO
C 498	14.4	68.6	999	9	ADA91820	Ada91820 Novel hum
C 499	14.4	68.6	999	9	ADB14883	AdB14883 Human PRO
C 500	14.4	68.6	999	14	AEBl4112	Aebl4112 Cancer ce

ALIGNMENTS

RESULT 1	
ACC00302	
ID	ACC00302 standard; cDNA; 369 BP.
XX	
AC	ACC00302;
XX	
DT	20-JUN-2003 (first entry)
XX	
DE	Consensus Einkorn sequence.
XX	
KW	Wheat; plant; IMI nucleic acid; acetohydroxyacid synthase; AHAS;
KW	imidazolinone resistance; Einkorn IMI3; ss.
XX	
OS	Synthetic.
XX	
FN	WO2003014356-A1.
XX	
PD	20-FEB-2003.
XX	
PF	10-JUL-2002; 2002WO-CA001050.
XX	
PR	09-AUG-2001; 2001US-0311180P.
XX	
PA	(UYSA-) UNIV SASKATCHEWAN.
XX	

GenCore version 5.1.7

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2594.31 Seconds
(without alignments)
378.725 Million cell updates/sec

Title: US-10-805-973-3

Perfect score: 21
Sequence: 1 cgtgctgctatgcgaac 21

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:

1: gb_est1:*
2: gb_est2:*
3: gb_est3:*
4: gb_hic:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_est7:*
9: gb_ges1:*
10: gb_ges2:*
11: gb_ges3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18.4	87.6	367	5	B0762109 EBp101.SQ
2	18.4	87.6	420	1	AJ475726 AJ475726
3	18.4	87.6	429	5	B0772552 HB21P15r
4	18.4	87.6	438	1	AU089946 AU089946
5	18.4	87.6	460	2	B0700418 B0700418
6	18.4	87.6	462	8	CX629678 CX629678
7	18.4	87.6	485	6	CA721426 wdk-9n.pk0
8	18.4	87.6	492	6	CA741112 wemlc.pk0
9	18.4	87.6	517	5	CA012924 HT06N21r
10	18.4	87.6	526	1	AJ610886 AJ610886
11	18.4	87.6	528	1	AV942818 AV942818
12	18.4	87.6	530	2	BA417248 MUG018.CO
13	18.4	87.6	536	6	CA735255 wpils.pk0
14	18.4	87.6	543	5	B0985874 B0985874
15	18.4	87.6	543	6	CA735222 wplls.pk0
16	18.4	87.6	568	5	CA001228 HS18N04u
17	18.4	87.6	568	5	CA001528 HS17M10u
18	18.4	87.6	593	3	BJ218387 BJ218387
19	18.4	87.6	614	5	B0989646 HF22F02r
20	18.4	87.6	615	1	AV936190 AV936190
21	18.4	87.6	615	7	CV057250 BNEL25F6
22	18.4	87.6	620	3	BJ468205 BJ468205

23	18.4	87.6	623	7	CV058653
24	18.4	87.6	664	2	BG905270
25	18.4	87.6	670	3	BJ296872
26	18.4	87.6	672	3	BJ465087
27	18.4	87.6	674	8	DN179983
28	18.4	87.6	678	1	AV945607
29	18.4	87.6	696	3	BMI37990
30	18.4	87.6	700	8	DN186674
31	18.4	87.6	721	6	CD453275
32	18.4	87.6	727	3	BJ220643
33	18.4	87.6	779	7	CK155817
34	18.4	87.6	789	7	CK155817
35	18.4	87.6	894	7	CK157744
36	18.4	87.6	906	7	CK158704
37	18.4	87.6	1147	7	CK166638
38	18.4	87.6	1149	7	CK167615
39	18.4	87.6	1160	7	CK167307
40	18.4	87.6	1198	7	CK168204
41	17.8	84.8	375	5	BQ906558
42	17.8	84.8	526	6	CA646258
43	17.8	84.8	963	2	BF184433
44	17.4	82.9	273	1	AV934678
45	17.4	82.9	396	6	CA703794
46	17.4	82.9	443	1	AU089907
47	17.4	82.9	446	5	C28005
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55	17.4	82.9	706	1	AU162002
56	17.4	82.9	708	6	CB630252
57	17.4	82.9	803	6	CF816898
58	17.4	82.9	816	6	CB683493
59	17.4	82.9	855	10	CZ671547
60	17.4	82.9	897	10	CZ134246
61	17.4	82.9	923	7	CO020130
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63	17.4	82.9	1935	10	CL967368
64	17	81.0	294	7	CV033261
65	17	81.0	570	7	CN820002
66	17	81.0	613	7	CN010201
67	17	81.0	780	7	CN819919
68	17	81.0	792	5	BQ910219
69	16.8	80.0	226	10	EX891388
70	16.8	80.0	306	10	EX891387
71	16.8	80.0	323	9	CC456802
72	16.8	80.0	394	11	CR404044
73	16.8	80.0	401	1	AJ663673
74	16.8	80.0	415	1	AA611245
75	16.8	80.0	426	7	CO947954
76	16.8	80.0	458	11	AI156158
77	16.8	80.0	497	11	CR404043
78	16.8	80.0	498	10	CA455843
79	16.8	80.0	565	1	AA647312
80	16.8	80.0	588	10	AG917408
81	16.8	80.0	591	6	CF742855
82	16.8	80.0	649	10	CA456478
83	16.8	80.0	691	10	CA456479
84	16.8	80.0	704	5	BY756143
85	16.8	80.0	724	6	CF763424
86	16.8	80.0	731	7	CO024992
87	16.8	80.0	733	10	AG175645
88	16.8	80.0	867	7	CK451569
89	16.8	80.0	879	7	CK464292
90	16.8	80.0	883	8	DR952881
91	16.8	80.0	887	8	DR928410
92	16.8	80.0	1216	2	BF383326
93	16.8	80.0	3525	4	AK047897
94	16.8	80.0	3585	4	AK050542
95	16.8	80.0	3999	4	BC019133

CV058653	BNEL3D12
BG905270	TALr1138E
BJ296872	BJ296872
BJ465087	BJ465087
DN179983	HO28K09S
AV945607	AV945607
BMI37990	WHE0479_A
DN186674	HO28K09W
CD453275	WHE1817-1
BJ220643	BJ220643
CK155817	FGAS03668
CK155817	FGAS03668
CK157744	FGAS03890
CK158704	FGAS03999
CK166638	FGAS05080
CK167615	FGAS05201
CK167307	FGAS05163
CK168204	FGAS05270
BQ906558	M007G12_O
CA646258	wre1n.pk0
BF184433	601844370
AV934678	AV934678
CA703794	wdk1c.pk0
AU089907	AU089907
C28005	C28005_Rice
AU172494	AU172494
CK036599	34229r81c
CX102310	RECm3292
CK040671	39485r81c
CK037714	39537r81c
CB656902	OSUNEC11M
CO016307	EST786689
AU162002	AU162002
CB630252	OS11EB07B
CF816898	EST594280
CB683493	OSUNEF11P
CZ671547	OM_BA022
CZ134246	OA_BBA002
CO020130	EST816223
BU512574	AGENCOURT
CL967368	OB1FCC039
CV033261	4136598_B
CN820002	HRO4409_G
CN010201	WHE3867_H
CN819919	HRO4407_H
BQ910219	OHA13113
EX891388	Arabidops
EX891387	Arabidops
CC456802	SALK_1006
CR404044	Arabidops
AJ663673	AJ663673
AA611245	vm44h10_r
CO947954	UMC-p8mm3
AI156158	ue09g10_r
CR404043	Arabidops
CA455843	fbab001f2
AA647312	vs91b07_r
AG917408	Drosophil
CF742855	UI-W-H80
CA456478	fbab001f2
CA456479	fbab001f2
BY756143	BY756143
CF763424	CES005965
CO024992	EST803376
AG175645	Pan trogl
CK451569	904758 MA
CK464292	935261 MA
DR952881	EST114442
DR928410	EST111994
BF383326	602044379
AK047897	Mus muscu
AK050542	Mus muscu
BC019133	Mus muscu

96	16.8	80.0	4614	4	AK083696	Mus muscu	AK083696	169	16	76.2	507	1	AW202598	fj19d06.y
97	16.4	78.1	344	10	C2015728	CH240_512	C2015728	170	16	76.2	521	3	BI813072	I003G07.O
98	16.4	78.1	416	9	C3229951	OGAN35TV	C3229951	171	16	76.2	521	3	BI813072	I003G07.O
99	16.4	78.1	425	3	BP816087	BP816087	BP816087	172	16	76.2	672	8	DN199584	USDA-PP_1
100	16.4	78.1	430	10	CG177440	PUGWG60TD	CG177440	173	16	76.2	707	10	CZ134481	OA_BBA002
101	16.4	78.1	525	8	DR599473	EST9860D1	DR599473	174	16	76.2	714	10	CL838248	OR_CBA006
102	16.4	78.1	543	10	C2911651	E012007D0	C2911651	175	16	76.2	727	10	CL748539	OR_BBA011
103	16.4	78.1	571	8	DR623627	EST101375	DR623627	176	16	76.2	744	7	CO123150	GR_Eb05C
104	16.4	78.1	605	6	CA380041	659258.NC	CA380041	177	15.8	75.2	183	9	BH791015	SALK_0583
105	16.4	78.1	629	5	BX299129	BX299129	BX299129	178	15.8	75.2	239	9	CB089499	SP24E05.G
106	16.4	78.1	630	5	BX299130	BX299130	BX299130	179	15.8	75.2	313	7	CK125179	BES18241.O
107	16.4	78.1	653	6	CA215664	SCRLAD114	CA215664	180	15.8	75.2	328	2	BF061906	7K68905.x
108	16.4	78.1	660	8	DR598580	EST988709	DR598580	181	15.8	75.2	343	6	CB089767	CB089767
109	16.4	78.1	670	10	C2911679	E012007E0	C2911679	182	15.8	75.2	350	10	BX944502	Arabidops
110	16.4	78.1	672	6	CA350897	621554.NC	CA350897	183	15.8	75.2	361	8	DR063138	DR063138
111	16.4	78.1	683	6	CA344872	675353.NC	CA344872	184	15.8	75.2	364	5	BX300574	BY300574
112	16.4	78.1	689	5	BX321023	BX321023	BX321023	185	15.8	75.2	370	6	CF181337	CF181337
113	16.4	78.1	696	10	C2911338	E012006B0	C2911338	186	15.8	75.2	370	6	CF359894	821175.MA
114	16.4	78.1	711	7	CK447168	N8A8.SP6	CK447168	187	15.8	75.2	384	2	BB651494	BB651494
115	16.4	78.1	717	7	CR369478	CR369478	CR369478	188	15.8	75.2	386	10	CE571246	tigr-g88-
116	16.4	78.1	727	6	CA074490	SCEZAM108	CA074490	189	15.8	75.2	437	10	CZ642818	OM_Ba018
117	16.4	78.1	732	5	BX867147	BX867147	BX867147	190	15.8	75.2	457	6	CB089667	CB089667
118	16.4	78.1	734	8	CK723145	1330518.N	CK723145	191	15.8	75.2	471	3	BM000608	I031090A0
119	16.4	78.1	739	5	BX321024	BX321024	BX321024	192	15.8	75.2	476	6	CA998485	S345E.CO1
120	16.4	78.1	753	5	BX318202	BX318202	BX318202	193	15.8	75.2	490	2	BE743353	601573272
121	16.4	78.1	766	6	CA213596	SCQSB114	CA213596	194	15.8	75.2	491	1	AA722004	zh17E02.8
122	16.4	78.1	784	9	CC406482	FUEK63TD	CC406482	195	15.8	75.2	505	9	BZ455323	BONCA43TR
123	16.4	78.1	806	8	DR649474	EST103959	DR649474	196	15.8	75.2	515	1	AV834751	AV834751
124	16.4	78.1	810	10	CG096767	FUIDV33TB	CG096767	197	15.8	75.2	519	3	BJ201556	BJ201556
125	16.4	78.1	892	9	BZ577223	msb2_5309	BZ577223	198	15.8	75.2	523	8	DR062316	Iq15d03.G
126	16.4	78.1	895	2	BG109855	60279521	BG109855	199	15.8	75.2	530	10	CE596889	tigr-g88-
127	16.4	78.1	896	10	C2331036	ZMMBF0038	C2331036	200	15.8	75.2	531	5	BU766352	SJEAD0C3
128	16.4	78.1	914	8	DR664497	EST105461	DR664497	201	15.8	75.2	532	2	BF615603	de83f06.x
129	16.4	78.1	936	9	CC694348	OGV9070TH	CC694348	202	15.8	75.2	533	6	CB090293	SP37C06.G
130	16.4	78.1	1178	8	DN738638	CNB99-G08	DN738638	203	15.8	75.2	537	5	BU777836	SJEDOE05
131	16.4	78.1	1215	8	DN731149	CNB56-H08	DN731149	204	15.8	75.2	542	1	AJ788525	AJ788525
132	16.4	78.1	1317	8	DN738639	CNB99-G08	DN738639	205	15.8	75.2	542	6	CB636013	OSJNEA01A
133	16.4	78.1	1346	8	DN731150	CNB56-H08	DN731150	206	15.8	75.2	552	6	CB091437	CB091437
134	16.2	77.1	314	1	AJ762828	AJ762828	AJ762828	207	15.8	75.2	563	5	BU779037	SJESSEF12
135	16.2	77.1	388	2	BF442393	259086.MA	BF442393	208	15.8	75.2	573	1	AJ801332	AJ801332
136	16.2	77.1	422	5	BQ765988	BQ765988	BQ765988	209	15.8	75.2	573	1	AJ804674	AJ804674
137	16.2	77.1	491	10	C2212608	AI1A-aaif4	C2212608	210	15.8	75.2	574	3	BM000491	103108851
138	16.2	77.1	498	3	BI722891	1031059G0	BI722891	211	15.8	75.2	574	6	CB089581	sp26a10.g
139	16.2	77.1	526	3	BI998617	1031059G0	BI998617	212	15.8	75.2	576	4	AY915222	Sch1stobo
140	16.2	77.1	546	2	BB753714	BB753714	BB753714	213	15.8	75.2	576	7	CV741292	SJAL_032
141	16.2	77.1	584	3	BI845301	f893C03.Y	BI845301	214	15.8	75.2	576	7	CV741292	SJAL_032
142	16.2	77.1	606	1	AL819778	AL819778	AL819778	215	15.8	75.2	582	1	AT004936	AT004936
143	16.2	77.1	615	7	CO868082	Mdfit3040	CO868082	216	15.8	75.2	582	1	AT004936	AT004936
144	16.2	77.1	625	3	BJ702600	BJ702600	BJ702600	217	15.8	75.2	585	6	CB090890	CB090890
145	16.2	77.1	640	2	BE660316	3-C6.Gmax	BE660316	218	15.8	75.2	588	10	CM031571	CM031571
146	16.2	77.1	645	7	CM053250	Salsmande	CM053250	219	15.8	75.2	590	7	CK072089	CK072089
147	16.2	77.1	649	7	CM427308	CJ427308	CM427308	220	15.8	75.2	592	1	AJ804557	AJ804557
148	16.2	77.1	664	11	CR125904	Forward.S	CR125904	221	15.8	75.2	596	10	CM090262	CM090262
149	16.2	77.1	671	9	BZ658172	OGCCE52TM	BZ658172	222	15.8	75.2	597	6	CD056323	CD056323
150	16.2	77.1	736	9	BH965854	odh6h02.	BH965854	223	15.8	75.2	598	9	AZ868948	AZ868948
151	16.2	77.1	760	3	BJ783636	BJ783636	BJ783636	224	15.8	75.2	600	8	BN968235	ISLJ361.A
152	16.2	77.1	768	6	CF635826	CF635826	CF635826	225	15.8	75.2	608	9	BH527432	BOHLX15TR
153	16.2	77.1	772	9	BH457953	BOGW69TR	BH457953	226	15.8	75.2	609	1	AJ802548	AJ802548
154	16.2	77.1	774	3	BJ815391	BJ815391	BJ815391	227	15.8	75.2	614	8	DN971378	DN971378
155	16.2	77.1	800	8	DN762885	EST002013	DN762885	228	15.8	75.2	615	9	BH983242	odf02b03.
156	16.2	77.1	805	10	CG044630	PULLU88TD	CG044630	229	15.8	75.2	620	3	BI727152	1031090A0
157	16.2	77.1	822	10	CG159228	PULF79TD	CG159228	230	15.8	75.2	620	3	BJ608788	BJ608788
158	16.2	77.1	833	10	CZ195434	AI1A-aac5	CZ195434	231	15.8	75.2	624	7	CO381349	CO381349
159	16.2	77.1	851	11	AL420931	T7_end_of	AL420931	232	15.8	75.2	631	11	CR865369	CR865369
160	16.2	77.1	854	9	BZ658160	OGCCE52TC	BZ658160	233	15.8	75.2	633	3	CF541553	AGM81.Ano
161	16.2	77.1	871	9	BZ978624	PUDGU24TD	BZ978624	234	15.8	75.2	635	3	BJ592061	BJ592061
162	16.2	77.1	903	9	CC137287	NDL_81P21	CC137287	235	15.8	75.2	641	6	CA781113	mlp1384-7
163	16.2	77.1	931	10	CR2498782	GMW2-16F6	CR2498782	236	15.8	75.2	650	6	CD825134	BN25.059N
164	16.2	77.1	932	7	CR286267	CR286267	CR286267	237	15.8	75.2	653	7	CO450011	MZCCL1014
165	16.2	77.1	1135	10	AJ855761	Brassica	AJ855761	238	15.8	75.2	655	10	AG11843	AG11843
166	16.2	77.1	1205	10	AG046547	Pan trogl	AG046547	239	15.8	75.2	668	5	BQ466022	H401P17T
167	16.2	77.1	1273	10	CL648401	CL648401	CL648401	240	15.8	75.2	669	10	CL188526	CL188526
168	16.2	77.1	1423	2	BF783329	BF783329	BF783329	241	15.8	75.2	670	1	AU076263	AU076263

C 242	15.8	75.2	672	6	CD206751	HS1_24_H0	CD206751	HS1_24_H0	15.4	73.3	504	3	BM000797	BM000797	1031091C0
243	15.8	75.2	674	10	CW503558	OP_Ba000	CW503558	OP_Ba000	15.4	73.3	506	3	AA530518	AA530518	vj39e07.r
244	15.8	75.2	676	10	BQ412021	GA_Ed005	BQ412021	GA_Ed005	15.4	73.3	509	3	BI531492	BI531492	102411480
245	15.8	75.2	676	8	CK264732	FM000-006	CK264732	FM000-006	15.4	73.3	514	2	BI065893	BI065893	pgfin.pk0
246	15.8	75.2	692	10	AG283599	Mus muscu	AG283599	Mus muscu	15.4	73.3	516	3	BJ931722	BJ931722	BJ931722
C 247	15.8	75.2	694	7	CO059404	est_k_bre	CO059404	est_k_bre	15.4	73.3	518	2	BF466475	BF466475	UI-M-CG0p
C 248	15.8	75.2	699	10	CL612292	OR_BBa000	CL612292	OR_BBa000	15.4	73.3	523	8	DR787735	DR787735	ZM_BFB000
C 249	15.8	75.2	705	2	BE881250	601492331	BE881250	601492331	15.4	73.3	523	8	BZ362681	BZ362681	1d70b04.g
C 250	15.8	75.2	717	8	DN968710	ISPL-P6-E	DN968710	ISPL-P6-E	15.4	73.3	523	8	AI777737	AI777737	EST58616
C 251	15.8	75.2	728	1	AJ559772	AJ559772	AJ559772	AJ559772	15.4	73.3	526	2	BF113118	BF113118	EST440708
C 252	15.8	75.2	732	10	AG428169	Mus muscu	AG428169	Mus muscu	15.4	73.3	528	2	BE406063	BE406063	EST412022
C 253	15.8	75.2	744	10	AG364365	Mus muscu	AG364365	Mus muscu	15.4	73.3	528	2	BF784165	BF784165	1zmb013f0
C 254	15.8	75.2	749	3	BJ665990	BJ665990	BJ665990	BJ665990	15.4	73.3	530	5	BQ758603	BQ758603	EBma07_SQ
255	15.8	75.2	758	10	CW834479	OP_Ba009	CW834479	OP_Ba009	15.4	73.3	533	1	AG390946	AG390946	EST516297
256	15.8	75.2	760	10	CW834025	OP_Ba009	CW834025	OP_Ba009	15.4	73.3	541	1	AG390946	AG390946	AV390968
257	15.8	75.2	769	9	BH727541	BOML07TR	BH727541	BOML07TR	15.4	73.3	542	5	BQ704584	BQ704584	Bn01_02b2
C 258	15.8	75.2	774	7	CO561026	AGENCOURT	CO561026	AGENCOURT	15.4	73.3	550	8	DN519314	DN519314	1260i36 M
C 259	15.8	75.2	775	6	CD827161	BN25_0661	CD827161	BN25_0661	15.4	73.3	558	10	CG269249	CG269249	OGVCL77TV
260	15.8	75.2	777	7	CO399792	AGENCOURT	CO399792	AGENCOURT	15.4	73.3	568	3	BI998372	BI998372	1031056G0
261	15.8	75.2	788	9	CC908104	t040i15ba	CC908104	t040i15ba	15.4	73.3	570	8	DN850828	DN850828	HS_3069_B
262	15.8	75.2	789	7	CK316592	SB02019A2	CK316592	SB02019A2	15.4	73.3	573	5	EX263477	EX263477	1416372 B
C 263	15.8	75.2	802	6	CB651419	OSUNE16P	CB651419	OSUNE16P	15.4	73.3	573	8	DN927840	DN927840	1513137 B
264	15.8	75.2	820	10	CZ694312	OC_Ba000	CZ694312	OC_Ba000	15.4	73.3	585	3	BI727283	BI727283	1031091C0
C 265	15.8	75.2	821	8	DN872102	nacl7H02	DN872102	nacl7H02	15.4	73.3	588	3	BI721578	BI721578	1031056G0
C 266	15.8	75.2	830	6	CB630702	OSIEB07M	CB630702	OSIEB07M	15.4	73.3	588	10	CG269249	CG269249	OGVCL77TV
267	15.8	75.2	833	10	CZ221869	AIAA-aac5	CZ221869	AIAA-aac5	15.4	73.3	592	3	BI998372	BI998372	1031056G0
C 268	15.8	75.2	834	6	CB631345	OSIEB08M	CB631345	OSIEB08M	15.4	73.3	595	1	AI981642	AI981642	pat.pk006
C 269	15.8	75.2	838	6	CD574176	UCRPT01_0	CD574176	UCRPT01_0	15.4	73.3	597	8	DN850842	DN850842	1416387 B
270	15.8	75.2	840	10	CZ216432	AIAA-aac7	CZ216432	AIAA-aac7	15.4	73.3	597	9	CE196216	CE196216	tigr-g88-
271	15.8	75.2	841	7	CK596038	CK596038	CK596038	CK596038	15.4	73.3	598	3	BJ794173	BJ794173	HS941173
C 272	15.8	75.2	841	10	CW978426	AIAA-aac3	CW978426	AIAA-aac3	15.4	73.3	600	3	BI629312	BI629312	RH58156.5
C 273	15.8	75.2	843	10	CL970277	OSIFCC041	CL970277	OSIFCC041	15.4	73.3	606	1	AL799976	AL799976	AL799976
274	15.8	75.2	856	7	CV673632	RET7SJ_20	CV673632	RET7SJ_20	15.4	73.3	609	3	BM413435	BM413435	EST587762
275	15.8	75.2	863	10	DU005089	DU005089	DU005089	DU005089	15.4	73.3	610	5	EX258069	EX258069	SCS8FL104
C 276	15.8	75.2	866	8	CK189415	75-E02278	CK189415	75-E02278	15.4	73.3	611	5	CA220276	CA220276	SCS8FL104
C 277	15.8	75.2	898	7	CV292554	aof01-5ms	CV292554	aof01-5ms	15.4	73.3	613	1	AL849058	AL849058	AL849058
C 278	15.8	75.2	900	7	CN158761	947573 MA	CN158761	947573 MA	15.4	73.3	614	5	BUI31587	BUI31587	603003805
C 279	15.8	75.2	910	7	CV291176	aof01-7ms	CV291176	aof01-7ms	15.4	73.3	614	7	CN087165	CN087165	EC28BA28B
280	15.8	75.2	931	7	CV290995	aof01-16m	CV290995	aof01-16m	15.4	73.3	615	10	CL384099	CL384099	RPC144_32
281	15.8	75.2	972	10	CL061435	CH216-95M	CL061435	CH216-95M	15.4	73.3	617	3	BI721577	BI721577	1031056G0
282	15.8	75.2	1020	10	CL063959	CH216-101	CL063959	CH216-101	15.4	73.3	617	9	AZ643157	AZ643157	1M0506F10
283	15.8	75.2	1027	4	CNS0PQKK	Tetraodon	CNS0PQKK	Tetraodon	15.4	73.3	621	9	BZ369010	BZ369010	CoC100.1.
C 284	15.8	75.2	1036	11	CNS03505	Tetraodon	CNS03505	Tetraodon	15.4	73.3	622	1	AL901127	AL901127	AL901127
C 285	15.8	75.2	1115	3	BQ062406	AGENCOURT	BQ062406	AGENCOURT	15.4	73.3	623	1	AL957502	AL957502	AL957502
286	15.8	75.2	1136	2	BG250783	602363095	BG250783	602363095	15.4	73.3	624	7	CN778522	CN778522	pgn2c.pk0
287	15.8	75.2	1325	10	AJ860722	Braesica	AJ860722	Braesica	15.4	73.3	629	7	CO534271	CO534271	3530_1_22
C 288	15.8	75.2	2404	4	AK088187	Mus muscu	AK088187	Mus muscu	15.4	73.3	634	6	CA223739	CA223739	SCJFFL1C0
C 289	15.8	75.2	4524	4	AK048959	Mus muscu	AK048959	Mus muscu	15.4	73.3	636	5	EX263478	EX263478	AL866113
C 290	15.4	73.3	214	1	AL587995	AL587995	AL587995	AL587995	15.4	73.3	640	1	AL866113	AL866113	AL866113
C 291	15.4	73.3	215	9	AZ925170	ez32	AZ925170	ez32	15.4	73.3	641	5	BU402357	BU402357	604138081
292	15.4	73.3	221	6	CA289727	SCAGFL800	CA289727	SCAGFL800	15.4	73.3	642	8	CX879273	CX879273	JGI_CAA11
293	15.4	73.3	259	8	DR109369	81847_127	DR109369	81847_127	15.4	73.3	645	3	BI724090	BI724090	1031069A1
C 295	15.4	73.3	321	3	BM409836	EST584163	BM409836	EST584163	15.4	73.3	645	5	EX271212	EX271212	EX271212
C 296	15.4	73.3	383	8	DN522062	1265012 M	DN522062	1265012 M	15.4	73.3	648	1	AL957501	AL957501	AL957501
C 297	15.4	73.3	385	9	AQ138332	HS_3078_A	AQ138332	HS_3078_A	15.4	73.3	654	3	BI875002	BI875002	963120H09
298	15.4	73.3	387	9	AZ812429	2M079A08	AZ812429	2M079A08	15.4	73.3	655	3	BJ767778	BJ767778	BJ767778
299	15.4	73.3	402	3	BM535415	EST588437	BM535415	EST588437	15.4	73.3	656	6	CF177593	CF177593	806084 MA
C 300	15.4	73.3	412	8	H71252	Yel12h12.181	H71252	Yel12h12.181	15.4	73.3	657	5	BU479777	BU479777	603842460
301	15.4	73.3	427	5	EX258070	EX258070	EX258070	EX258070	15.4	73.3	661	1	AL887893	AL887893	AL887893
302	15.4	73.3	435	2	BF073865	220905 MA	BF073865	220905 MA	15.4	73.3	662	2	EG854745	EG854745	1024049F1
303	15.4	73.3	441	2	BF549653	UI-R-C2-n	BF549653	UI-R-C2-n	15.4	73.3	664	6	CA223649	CA223649	SCJFFL1C0
304	15.4	73.3	458	2	BE942480	EST428049	BE942480	EST428049	15.4	73.3	667	1	AL631211	AL631211	AL631211
305	15.4	73.3	459	2	BF112873	EST40463	BF112873	EST40463	15.4	73.3	667	5	BU251084	BU251084	603402386
306	15.4	73.3	460	5	BQ908062	Q006F10_0	BQ908062	Q006F10_0	15.4	73.3	668	6	CF178011	CF178011	807040 MA
307	15.4	73.3	465	3	BI531493	102411480	BI531493	102411480	15.4	73.3	669	2	EG854406	EG854406	1024049H0
308	15.4	73.3	478	7	CV039783	4137196 B	CV039783	4137196 B	15.4	73.3	671	2	EG854745	EG854745	1024040G0
C 309	15.4	73.3	481	1	AA858110	0f65902_B	AA858110	0f65902_B	15.4	73.3	673	8	EX803872	EX803872	JGI_CAAJ1
310	15.4	73.3	482	5	BU989965	HP23H01r	BU989965	HP23H01r	15.4	73.3	675	6	CF701393	CF701393	CAAC522TR
C 311	15.4	73.3	488	3	BP048815	BP048815	BP048815	BP048815	15.4	73.3	676	8	DN239008	DN239008	MUC4LH101
C 312	15.4	73.3	490	9	AZ356596	1M0097D16	AZ356596	1M0097D16	15.4	73.3	680	8	CX421706	CX421706	JGI_XZG15
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C 314	15.4	73.3	500	2	BE129450	894023C08	BE129450	894023C08	15.4	73.3	682	6	CA381176	CA381176	660639 NC

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 72.568 Seconds
(without alignments)
514.397 Million cell updates/sec

Title: US-10-805-973-3

Perfect score: 21

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Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	17.4	82.9	208	3	US-10-258-842-11
6	17.4	82.9	528	3	US-10-258-842-16
7	17.4	82.9	1095	3	US-10-258-842-1
8	17.4	82.9	1985	3	US-10-258-842-20
9	17.4	82.9	1986	3	US-10-258-842-14
10	17.4	82.9	1986	3	US-10-258-842-18
11	17.4	82.9	1986	3	US-10-258-842-24
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13	17.4	82.9	2301	3	US-10-258-842-2
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19	15.8	75.2	507	3	US-09-844-036A-5
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23	15.8	75.2	52457	3	US-09-949-016-12418
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86	14.4	68.6	601	3	US-09-949-002-9080
87	14.4	68.6	601	3	US-09-949-002-9081
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89	14.4	68.6	704	3	US-09-244-111-3
90	14.4	68.6	792	3	US-09-252-991A-2289
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97	14.4	68.6	1049	3	Sequence 3, Appli

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c 98	14.4	68.6	1059	3	US-09-252-991A-2370	Sequence 2370, Ap	171	14.2	67.6	1228	3	US-09-557-034-16	Sequence 16, Appl
c 99	14.4	68.6	1107	3	US-09-252-991A-2547	Sequence 2547, Ap	c 172	14.2	67.6	1245	3	US-09-318-443-1	Sequence 1, Appl
c 100	14.4	68.6	1143	3	US-09-543-681A-1740	Sequence 1740, Ap	c 173	14.2	67.6	1250	3	US-09-774-528-380	Sequence 380, App
c 101	14.4	68.6	1343	3	US-09-618-259-72	Sequence 72, Appl	c 174	14.2	67.6	1250	3	US-10-120-988-380	Sequence 380, App
c 102	14.4	68.6	1369	3	US-09-618-259-6	Sequence 6, Appl	c 175	14.2	67.6	1266	3	US-09-065-474-141	Sequence 141, App
c 103	14.4	68.6	1369	2	US-07-737-851-1	Sequence 1, Appl	c 176	14.2	67.6	1266	3	US-09-065-474-143	Sequence 143, App
c 104	14.4	68.6	1369	2	US-07-737-851-2	Sequence 2, Appl	c 177	14.2	67.6	1266	3	US-09-557-034-141	Sequence 141, App
c 105	14.4	68.6	1369	2	US-07-737-851-3	Sequence 3, Appl	c 178	14.2	67.6	1266	3	US-09-557-034-143	Sequence 143, App
c 106	14.4	68.6	1369	2	US-07-894-062-1	Sequence 1, Appl	c 179	14.2	67.6	1388	3	US-09-504-358-49	Sequence 49, Appl
c 107	14.4	68.6	1369	2	US-07-894-062-2	Sequence 2, Appl	c 180	14.2	67.6	1388	3	US-09-954-314-49	Sequence 49, Appl
c 108	14.4	68.6	1369	2	US-07-894-062-3	Sequence 3, Appl	c 181	14.2	67.6	1388	3	US-10-230-562-49	Sequence 49, Appl
c 109	14.4	68.6	1369	3	US-09-096-562-1	Sequence 1, Appl	c 182	14.2	67.6	1391	3	US-09-724-864-19	Sequence 19, Appl
c 110	14.4	68.6	1369	3	US-09-096-562-2	Sequence 2, Appl	c 183	14.2	67.6	1450	3	US-09-339-159B-33	Sequence 33, Appl
c 111	14.4	68.6	1369	3	US-09-096-562-3	Sequence 3, Appl	c 184	14.2	67.6	1450	3	US-09-726-774-8	Sequence 8, Appl
c 112	14.4	68.6	3035	2	US-08-726-725-2	Sequence 2, Appl	c 185	14.2	67.6	1477	3	US-09-606-401B-1	Sequence 1, Appl
c 113	14.4	68.6	50530	3	US-09-949-016-12163	Sequence 12163, A	c 186	14.2	67.6	1508	3	US-09-198-955A-14	Sequence 14, Appl
c 114	14.4	68.6	50536	3	US-09-949-016-17526	Sequence 17526, A	c 187	14.2	67.6	1508	3	US-09-694-531-14	Sequence 14, Appl
c 115	14.4	68.6	116592	3	US-09-818-512-3	Sequence 3, Appl	c 188	14.2	67.6	1508	3	US-09-339-159B-34	Sequence 34, Appl
c 116	14.4	68.6	116592	3	US-10-354-065-3	Sequence 3, Appl	c 189	14.2	67.6	1508	3	US-10-072-152-14	Sequence 14, Appl
c 117	14.4	68.6	117807	3	US-09-949-016-15525	Sequence 15525, A	c 190	14.2	67.6	1512	3	US-08-995-960-2	Sequence 2, Appl
c 118	14.4	68.6	118999	3	US-09-791-105B-32	Sequence 32, Appl	c 191	14.2	67.6	1515	3	US-09-726-774-9	Sequence 9, Appl
c 119	14.4	68.6	128264	3	US-09-949-016-16396	Sequence 16396, A	c 192	14.2	67.6	1522	3	US-09-548-606-1	Sequence 1, Appl
c 120	14.4	68.6	135687	3	US-09-949-002-805	Sequence 805, App	c 193	14.2	67.6	1549	3	US-09-905-999-36	Sequence 26, Appl
c 121	14.4	68.6	145241	3	US-09-949-016-17394	Sequence 17394, A	c 194	14.2	67.6	1549	3	US-09-799-451-566	Sequence 566, App
c 122	14.4	68.6	145241	3	US-09-949-016-17395	Sequence 17395, A	c 195	14.2	67.6	2380	3	US-09-964-992A-4	Sequence 4, Appl
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c 124	14.2	67.6	25	3	US-09-396-196G-122165	Sequence 122165, A	c 197	14.2	67.6	2772	3	US-09-614-221A-210	Sequence 210, App
c 125	14.2	67.6	92	3	US-09-565-241-15	Sequence 15, Appl	c 198	14.2	67.6	3108	3	US-09-949-016-5629	Sequence 5629, Ap
c 126	14.2	67.6	92	3	US-09-565-241-16	Sequence 16, Appl	c 199	14.2	67.6	3177	3	US-09-134-513-1	Sequence 1, Appl
c 127	14.2	67.6	92	3	US-09-565-241-17	Sequence 17, Appl	c 200	14.2	67.6	3260	3	US-09-949-016-2456	Sequence 2456, Ap
c 128	14.2	67.6	92	3	US-09-565-241-18	Sequence 18, Appl	c 201	14.2	67.6	3285	3	US-09-712-363-143	Sequence 143, App
c 129	14.2	67.6	386	2	US-08-244-269-29	Sequence 29, Appl	c 202	14.2	67.6	3588	3	US-09-949-016-320	Sequence 320, App
c 130	14.2	67.6	386	2	US-08-244-269-30	Sequence 30, Appl	c 203	14.2	67.6	5235	2	US-09-031-485-35	Sequence 35, Appl
c 131	14.2	67.6	386	2	US-08-244-269-48	Sequence 48, Appl	c 204	14.2	67.6	5235	2	US-09-031-485-36	Sequence 36, Appl
c 132	14.2	67.6	426	2	US-08-470-179-193	Sequence 193, App	c 205	14.2	67.6	5235	2	US-08-847-429A-35	Sequence 35, Appl
c 133	14.2	67.6	511	3	US-08-854-133-360	Sequence 360, App	c 206	14.2	67.6	5235	2	US-08-847-429A-36	Sequence 36, Appl
c 134	14.2	67.6	554	3	US-08-995-960-3	Sequence 3, Appl	c 207	14.2	67.6	5235	3	US-09-065-474-35	Sequence 35, Appl
c 135	14.2	67.6	555	3	US-09-489-039A-4320	Sequence 4320, Ap	c 208	14.2	67.6	5235	3	US-09-065-474-36	Sequence 36, Appl
c 136	14.2	67.6	558	3	US-08-995-960-4	Sequence 4, Appl	c 209	14.2	67.6	5235	3	US-09-557-034-35	Sequence 35, Appl
c 137	14.2	67.6	572	3	US-08-995-960-7	Sequence 7, Appl	c 210	14.2	67.6	5235	3	US-09-557-034-36	Sequence 36, Appl
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c 139	14.2	67.6	591	3	US-09-854-133-315	Sequence 315, App	c 212	14.2	67.6	5503	2	US-09-031-485-32	Sequence 32, Appl
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c 142	14.2	67.6	601	3	US-09-949-016-175827	Sequence 175827, A	c 215	14.2	67.6	5503	2	US-08-847-429A-34	Sequence 34, Appl
c 143	14.2	67.6	601	3	US-09-949-016-175828	Sequence 175828, A	c 216	14.2	67.6	5503	3	US-09-065-474-34	Sequence 34, Appl
c 144	14.2	67.6	601	3	US-09-949-016-181024	Sequence 181024, A	c 217	14.2	67.6	5503	3	US-09-557-034-32	Sequence 32, Appl
c 145	14.2	67.6	601	3	US-09-949-016-181025	Sequence 181025, A	c 218	14.2	67.6	5503	3	US-09-557-034-34	Sequence 34, Appl
c 146	14.2	67.6	601	3	US-09-949-016-181026	Sequence 181026, A	c 219	14.2	67.6	5503	3	US-09-557-034-34	Sequence 34, Appl
c 147	14.2	67.6	786	3	US-09-134-000C-1561	Sequence 1561, Ap	c 220	14.2	67.6	6504	3	US-09-487-558B-55	Sequence 55, Appl
c 148	14.2	67.6	821	3	US-08-990-823-62	Sequence 62, Appl	c 221	14.2	67.6	10095	3	US-08-822-586-45	Sequence 45, Appl
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c 150	14.2	67.6	828	3	US-09-489-039A-4618	Sequence 4618, Ap	c 223	14.2	67.6	13785	3	US-09-949-016-15631	Sequence 15631, A
c 151	14.2	67.6	1111	3	US-09-774-528-387	Sequence 387, App	c 224	14.2	67.6	19454	3	US-09-949-016-13532	Sequence 13532, A
c 152	14.2	67.6	1111	3	US-10-120-988-387	Sequence 387, App	c 225	14.2	67.6	21438	3	US-09-949-016-14198	Sequence 14198, A
c 153	14.2	67.6	1190	3	US-09-774-528-379	Sequence 379, App	c 226	14.2	67.6	29615	3	US-09-949-016-14590	Sequence 14590, A
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c 163	14.2	67.6	1227	3	US-09-557-034-18	Sequence 18, Appl	c 236	14.2	67.6	260293	3	US-09-949-016-12106	Sequence 12106, A
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ALIGNMENTS

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; APPLICANT: Mechanical College
; APPLICANT: Croughan, Timothy
; TITLE OF INVENTION: RESISTANCE TO ACETOHYDROXYACID SYNTHASE-INHIBITING HERBICIDES
; FILE REFERENCE: 98A9.2-PCT Croughan
; CURRENT APPLICATION NUMBER: US/10/258.842
; CURRENT FILING DATE: 2002-10-28
; PRIOR APPLICATION NUMBER: US 60/203,434
; PRIOR FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.0; and WordPerfect version 8
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Listing first 500 summaries

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97	15.8	75.2	3309400	3	US-09-738-626-1	Sequence 1, Appli	170	15.2	72.4	2326	10	US-11-097-143-25115	Sequence 25115, A
98	15.4	73.3	538	8	US-10-425-115-148477	Sequence 148477, A	171	15.2	72.4	2835	5	US-10-027-632-112284	Sequence 112284, A
c 99	15.4	73.3	1185	6	US-10-369-493-46606	Sequence 46606, A	172	15.2	72.4	2835	5	US-10-027-632-112284	Sequence 112284, A
100	15.4	73.3	2178	3	US-09-974-300-1154	Sequence 1154, Ap	173	15.2	72.4	2835	5	US-10-027-632-112284	Sequence 112284, A
c 101	15.4	73.3	5665	7	US-10-437-963-82160	Sequence 82160, A	174	15.2	72.4	2835	6	US-10-027-632-112285	Sequence 112285, A
c 102	15.2	72.4	212	7	US-10-767-701-22373	Sequence 22373, A	175	15.2	72.4	2835	7	US-10-437-963-63578	Sequence 63578, A
c 103	15.2	72.4	339	7	US-10-767-701-16773	Sequence 16773, A	176	15.2	72.4	2931	8	US-10-425-115-83343	Sequence 83343, A
c 104	15.2	72.4	356	8	US-10-425-115-32300	Sequence 32300, A	c 177	15.2	72.4	3411	7	US-10-437-963-80405	Sequence 80405, A
105	15.2	72.4	396	8	US-10-425-115-17883	Sequence 17883, A	178	15.2	72.4	3809	7	US-10-425-114-31328	Sequence 31328, A
106	15.2	72.4	450	3	US-09-918-995-28514	Sequence 28514, A	179	15.2	72.4	3836	8	US-10-425-115-33814	Sequence 33814, Ap
107	15.2	72.4	469	3	US-09-854-432A-14	Sequence 14, Appl	c 180	15.2	72.4	3972	7	US-10-437-963-1932	Sequence 1932, Ap
108	15.2	72.4	469	9	US-10-287-436A-332	Sequence 332, App	181	15.2	72.4	4017	9	US-10-450-763-15777	Sequence 15777, A
109	15.2	72.4	469	9	US-10-287-436A-1416	Sequence 1416, Ap	182	15.2	72.4	4017	9	US-10-450-763-30299	Sequence 30299, A
110	15.2	72.4	471	7	US-10-437-963-11772	Sequence 11772, A	c 183	15.2	72.4	4580	10	US-11-097-143-10837	Sequence 10837, A
111	15.2	72.4	479	4	US-09-925-065A-741787	Sequence 741787, A	184	15.2	72.4	4950	10	US-11-097-143-25114	Sequence 25114, A
112	15.2	72.4	489	5	US-10-027-632-45700	Sequence 45700, A	185	15.2	72.4	5022	10	US-11-097-143-11104	Sequence 11104, A
113	15.2	72.4	489	5	US-10-027-632-80601	Sequence 80601, A	186	15.2	72.4	5425	7	US-10-437-963-79004	Sequence 79004, A
114	15.2	72.4	489	5	US-10-027-632-315173	Sequence 315173, A	187	15.2	72.4	5700	8	US-10-857-625-33	Sequence 33, Appl
115	15.2	72.4	489	6	US-10-027-632-45700	Sequence 45700, A	c 188	15.2	72.4	5808	7	US-10-437-963-80868	Sequence 80868, A
116	15.2	72.4	489	6	US-10-027-632-80601	Sequence 80601, A	189	15.2	72.4	6063	7	US-10-437-963-79070	Sequence 79070, A
117	15.2	72.4	489	6	US-10-027-632-315173	Sequence 315173, A	190	15.2	72.4	6336	3	US-09-964-824A-114	Sequence 114, App
c 118	15.2	72.4	556	4	US-09-925-065A-418659	Sequence 418659, A	191	15.2	72.4	6336	3	US-09-880-107-1537	Sequence 1537, Ap
119	15.2	72.4	575	5	US-10-027-632-245874	Sequence 245874, A	192	15.2	72.4	6336	9	US-10-843-641A-5417	Sequence 5417, Ap
120	15.2	72.4	575	5	US-10-027-632-245875	Sequence 245875, A	193	15.2	72.4	6730	2	US-08-781-986A-51	Sequence 51, Appl
121	15.2	72.4	575	5	US-10-027-632-245876	Sequence 245876, A	194	15.2	72.4	6730	7	US-10-329-624-51	Sequence 51, Appl
122	15.2	72.4	575	6	US-10-027-632-245874	Sequence 245874, A	195	15.2	72.4	7174	2	US-08-961-527-189	Sequence 189, App
123	15.2	72.4	575	6	US-10-027-632-245875	Sequence 245875, A	196	15.2	72.4	7174	2	US-10-158-844-189	Sequence 189, App
124	15.2	72.4	575	6	US-10-027-632-245876	Sequence 245876, A	197	15.2	72.4	9443	8	US-10-723-860-94	Sequence 94, Appl
125	15.2	72.4	595	4	US-09-925-065A-55411	Sequence 55411, A	c 198	15.2	72.4	9495	8	US-10-723-860-4851	Sequence 4851, Ap
126	15.2	72.4	595	4	US-09-925-065A-55412	Sequence 55412, A	199	15.2	72.4	10614	9	US-10-893-671-58	Sequence 58, Appl
c 127	15.2	72.4	596	4	US-09-925-065A-31215	Sequence 31215, A	c 200	15.2	72.4	17200	3	US-09-764-877-3390	Sequence 3390, Ap
c 128	15.2	72.4	598	4	US-09-925-065A-426540	Sequence 426540, A	c 201	15.2	72.4	17200	6	US-10-242-515-3390	Sequence 3390, Ap
c 129	15.2	72.4	600	9	US-09-925-065A-749962	Sequence 749962, A	c 202	15.2	72.4	20575	8	US-10-278-698-277	Sequence 277, App
c 130	15.2	72.4	600	9	US-10-972-079-600	Sequence 600, App	c 203	15.2	72.4	20575	8	US-10-278-698-791	Sequence 791, App
c 131	15.2	72.4	604	4	US-09-925-065A-43700	Sequence 43700, A	c 204	15.2	72.4	20846	8	US-10-723-860-4627	Sequence 4627, Ap
c 132	15.2	72.4	604	4	US-09-925-065A-418346	Sequence 418346, A	c 205	15.2	72.4	20881	8	US-10-723-860-24	Sequence 24, Appl
c 133	15.2	72.4	605	4	US-09-925-065A-418347	Sequence 418347, A	c 206	15.2	72.4	21166	7	US-10-367-094-198	Sequence 198, App
c 134	15.2	72.4	605	4	US-09-925-065A-418348	Sequence 418348, A	c 207	15.2	72.4	22804	3	US-09-997-722-268	Sequence 268, App
c 135	15.2	72.4	605	4	US-09-925-065A-418349	Sequence 418349, A	c 208	15.2	72.4	33963	6	US-10-282-798-617	Sequence 617, App
c 136	15.2	72.4	617	9	US-10-621-911A-1	Sequence 1, Appli	c 209	15.2	72.4	33963	5	US-10-087-192-1129	Sequence 1129, Ap
c 137	15.2	72.4	617	9	US-10-646-390A-1	Sequence 1, Appli	c 210	15.2	72.4	57561	5	US-10-737-082-105	Sequence 105, App
c 138	15.2	72.4	634	5	US-10-027-632-199868	Sequence 199868, A	c 211	15.2	72.4	61635	9	US-10-737-082-118	Sequence 118, App
c 139	15.2	72.4	634	5	US-10-027-632-199868	Sequence 199868, A	c 212	15.2	72.4	61635	9	US-10-765-790-105	Sequence 105, App
c 140	15.2	72.4	634	5	US-10-027-632-199868	Sequence 199868, A	c 213	15.2	72.4	61635	9	US-10-765-790-118	Sequence 118, App
c 141	15.2	72.4	637	4	US-09-925-065A-749963	Sequence 749963, A	c 214	15.2	72.4	80393	8	US-10-806-038-4	Sequence 4, Appli
c 142	15.2	72.4	637	4	US-09-925-065A-749964	Sequence 749964, A	c 215	15.2	72.4	80815	7	US-10-382-281-486	Sequence 486, App
c 143	15.2	72.4	637	4	US-09-925-065A-749965	Sequence 749965, A	c 216	15.2	72.4	80815	7	US-10-382-281-486	Sequence 486, App
c 144	15.2	72.4	649	9	US-10-764-420-2405	Sequence 2405, Ap	c 217	15.2	72.4	213251	6	US-10-292-798-1369	Sequence 1369, Ap
c 145	15.2	72.4	649	9	US-10-631-467-993	Sequence 993, App	c 218	15.2	72.4	2162598	8	US-10-472-928-4979	Sequence 4979, Ap
c 146	15.2	72.4	656	5	US-10-027-632-127393	Sequence 127393, A	c 219	15.2	72.4	2162598	8	US-10-472-928-4979	Sequence 4979, Ap
c 147	15.2	72.4	656	5	US-10-027-632-127393	Sequence 127393, A	c 220	15.2	72.4	3011208	7	US-10-398-221-2058	Sequence 2058, Ap
c 148	15.2	72.4	657	8	US-10-425-115-101968	Sequence 101968, A	c 221	15.2	72.4	3011208	7	US-10-398-221-2058	Sequence 2058, Ap
c 149	15.2	72.4	657	8	US-10-425-115-101968	Sequence 101968, A	c 222	15.2	72.4	600	9	US-10-972-079-17187	Sequence 17187, A
c 150	15.2	72.4	657	8	US-10-425-115-101968	Sequence 101968, A	c 223	15.2	72.4	600	9	US-10-972-079-17187	Sequence 17187, A
c 151	15.2	72.4	758	7	US-10-437-963-6495	Sequence 6495, Ap	c 224	15.2	72.4	613	4	US-09-925-065A-905145	Sequence 905145, A
c 152	15.2	72.4	758	7	US-10-437-963-6495	Sequence 6495, Ap	c 225	15.2	72.4	613	4	US-09-925-065A-905145	Sequence 905145, A
c 153	15.2	72.4	889	4	US-09-925-065A-699746	Sequence 699746, A	c 226	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 154	15.2	72.4	889	4	US-09-925-065A-699747	Sequence 699747, A	c 227	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 155	15.2	72.4	889	4	US-09-925-065A-699748	Sequence 699748, A	c 228	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 156	15.2	72.4	891	8	US-10-425-115-36724	Sequence 36724, A	c 229	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 157	15.2	72.4	891	8	US-10-425-115-36724	Sequence 36724, A	c 230	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 158	15.2	72.4	1086	7	US-10-653-047-10	Sequence 10, Appl	c 231	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 159	15.2	72.4	1086	7	US-10-653-047-10	Sequence 10, Appl	c 232	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 160	15.2	72.4	1134	8	US-10-472-928-899	Sequence 899, App	c 233	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 161	15.2	72.4	1140	9	US-10-474-776-473	Sequence 474, App	c 234	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 162	15.2	72.4	1365	6	US-10-437-963-14494	Sequence 14494, A	c 235	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 163	15.2	72.4	1365	6	US-10-437-963-14494	Sequence 14494, A	c 236	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 164	15.2	72.4	1572	7	US-10-437-963-6484	Sequence 6484, Ap	c 237	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 165	15.2	72.4	1572	7	US-10-437-963-6484	Sequence 6484, Ap	c 238	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 166	15.2	72.4	2106	7	US-10-437-963-81257	Sequence 81257, A	c 239	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 167	15.2	72.4	2106	7	US-10-437-963-81257	Sequence 81257, A	c 240	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 168	15.2	72.4	2176	10	US-11-087-143-11105	Sequence 11105, A	c 241	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 169	15.2	72.4	2184	4	US-09-925-065A-4199	Sequence 4199, Ap	c 242	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 170	15.2	72.4	2225	4	US-09-925-065A-64705	Sequence 64705, A	c 243	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 171	15.2	72.4	2317	10	US-11-097-143-10838	Sequence 10838, A	c 244	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A

C 389	14.6	69.5	795	8	US-10-425-115-34506	Sequence 34506, A	462	14.4	68.6	121	6	US-10-307-005-265	Sequence 265, App
C 390	14.6	69.5	933	6	US-10-369-493-44654	Sequence 44654, A	C 463	14.4	68.6	121	6	US-10-307-005-266	Sequence 266, App
C 391	14.6	69.5	1006	7	US-10-767-701-13617	Sequence 13617, A	C 464	14.4	68.6	121	6	US-10-307-005-281	Sequence 281, App
C 392	14.6	69.5	1090	7	US-10-437-963-26194	Sequence 26194, A	C 465	14.4	68.6	121	6	US-10-307-005-282	Sequence 282, App
C 393	14.6	69.5	1149	7	US-10-260-238-122	Sequence 122, App	C 466	14.4	68.6	142	3	US-09-954-456-22	Sequence 22, Appl
C 394	14.6	69.5	1197	4	US-09-925-065A-37749	Sequence 37749, A	C 467	14.4	68.6	142	3	US-09-954-456-549	Sequence 549, App
C 395	14.6	69.5	1197	4	US-09-925-065A-37750	Sequence 37750, A	C 468	14.4	68.6	142	3	US-09-954-456-1614	Sequence 1614, App
C 396	14.6	69.5	1209	7	US-10-425-114-679	Sequence 679, App	C 469	14.4	68.6	142	3	US-09-954-531-608	Sequence 608, App
C 397	14.6	69.5	1278	8	US-10-425-115-6340	Sequence 6340, App	C 470	14.4	68.6	142	3	US-09-873-367C-373	Sequence 373, App
C 398	14.6	69.5	1365	8	US-10-739-930-2144	Sequence 2144, App	C 471	14.4	68.6	142	9	US-10-843-641A-373	Sequence 373, App
C 399	14.6	69.5	1374	6	US-10-369-493-27388	Sequence 27388, A	C 472	14.4	68.6	142	9	US-10-843-641A-1675	Sequence 1675, App
C 400	14.6	69.5	1456	7	US-10-437-963-32270	Sequence 32270, A	C 473	14.4	68.6	142	9	US-10-843-641A-3049	Sequence 3049, App
C 401	14.6	69.5	1644	10	US-11-097-143-36431	Sequence 36431, A	C 474	14.4	68.6	142	9	US-10-843-641A-3576	Sequence 3576, App
C 402	14.6	69.5	1677	6	US-10-369-493-32918	Sequence 32918, A	C 475	14.4	68.6	142	9	US-10-843-641A-4641	Sequence 4641, App
C 403	14.6	69.5	1702	7	US-10-425-114-16636	Sequence 16636, A	C 476	14.4	68.6	178	7	US-10-262-511-57	Sequence 57, Appl
C 404	14.6	69.5	1713	7	US-10-425-114-16636	Sequence 16636, A	C 477	14.4	68.6	202	6	US-10-029-386-21469	Sequence 21469, A
C 405	14.6	69.5	1732	5	US-10-027-632-99921	Sequence 99921, A	C 478	14.4	68.6	219	7	US-10-437-963-92611	Sequence 92611, A
C 406	14.6	69.5	1732	6	US-10-027-632-99921	Sequence 99921, A	C 479	14.4	68.6	281	7	US-10-424-599-66038	Sequence 66038, A
C 407	14.6	69.5	1756	8	US-10-425-115-77320	Sequence 77320, A	C 480	14.4	68.6	288	7	US-10-262-511-49	Sequence 49, Appl
C 408	14.6	69.5	1791	8	US-10-425-115-34505	Sequence 34505, A	C 481	14.4	68.6	326	3	US-09-732-627A-2992	Sequence 2992, App
C 409	14.6	69.5	2102	9	US-10-764-420-1566	Sequence 1566, App	C 482	14.4	68.6	371	3	US-09-918-995-37556	Sequence 37556, A
C 410	14.6	69.5	2129	8	US-10-425-115-149261	Sequence 149261, A	C 483	14.4	68.6	371	3	US-09-918-995-37695	Sequence 37695, A
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C 413	14.6	69.5	2646	6	US-10-369-493-44569	Sequence 44569, A	C 486	14.4	68.6	432	3	US-09-969-034-3574	Sequence 3574, App
C 414	14.6	69.5	2644	10	US-11-097-143-26430	Sequence 26430, A	C 487	14.4	68.6	436	7	US-10-262-511-59	Sequence 59, Appl
C 415	14.6	69.5	4400	10	US-11-097-143-25238	Sequence 25238, A	C 488	14.4	68.6	437	9	US-10-505-680-369	Sequence 369, App
C 416	14.6	69.5	4473	10	US-11-097-143-25237	Sequence 25237, A	C 489	14.4	68.6	445	7	US-10-262-511-51	Sequence 51, Appl
C 417	14.6	69.5	4771	7	US-11-097-143-40130	Sequence 40130, A	C 490	14.4	68.6	451	4	US-09-925-065A-563235	Sequence 563235, A
C 418	14.6	69.5	4787	10	US-10-437-963-13387	Sequence 13387, A	C 491	14.4	68.6	454	8	US-10-425-115-113408	Sequence 113408, A
C 419	14.6	69.5	4782	10	US-11-097-143-16742	Sequence 16742, A	C 492	14.4	68.6	478	7	US-10-021-323-1881	Sequence 1881, App
C 420	14.6	69.5	4786	10	US-11-097-143-12409	Sequence 12409, A	C 493	14.4	68.6	479	8	US-10-425-115-136210	Sequence 136210, A
C 421	14.6	69.5	4980	10	US-11-097-143-8428	Sequence 8428, App	C 494	14.4	68.6	484	7	US-10-262-511-47	Sequence 47, Appl
C 422	14.6	69.5	5189	10	US-11-097-143-12010	Sequence 12010, A	C 495	14.4	68.6	486	7	US-10-437-963-23624	Sequence 23624, A
C 423	14.6	69.5	6172	3	US-09-809-920-3	Sequence 3, Appl	C 496	14.4	68.6	496	7	US-10-424-599-124643	Sequence 124643, A
C 424	14.6	69.5	6639	3	US-09-917-800A-1586	Sequence 1586, App	C 497	14.4	68.6	496	8	US-10-425-115-116236	Sequence 116236, A
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C 426	14.6	69.5	7080	10	US-11-097-143-16741	Sequence 16741, A	C 499	14.4	68.6	511	4	US-09-925-065A-645611	Sequence 645611, A
C 427	14.6	69.5	9145	6	US-10-311-455-862	Sequence 862, App	500	14.4	68.6	526	4	US-09-925-065A-457144	Sequence 457144, A
C 428	14.6	69.5	17491	6	US-10-017-161-1995	Sequence 1995, App							
C 429	14.6	69.5	18877	10	US-11-097-143-40189	Sequence 40189, A							
C 430	14.6	69.5	30143	10	US-11-097-143-25237	Sequence 25237, A							
C 431	14.6	69.5	38998	8	US-10-719-993-6963	Sequence 6963, App							
C 432	14.6	69.5	38998	8	US-10-741-600-17899	Sequence 17899, A							
C 433	14.6	69.5	163156	7	US-10-741-601-5668	Sequence 5668, App							
C 434	14.6	69.5	167343	3	US-09-962-436-281	Sequence 281, App							
C 435	14.6	69.5	167343	3	US-09-964-824A-273	Sequence 273, App							
C 436	14.6	69.5	167343	9	US-10-843-641A-2740	Sequence 2740, App							
C 437	14.6	69.5	167343	9	US-10-843-641A-5576	Sequence 5576, App							
C 438	14.6	69.5	234817	7	US-10-461-862-98	Sequence 98, Appl							
C 439	14.6	69.5	247544	7	US-10-322-636-55	Sequence 55, Appl							
C 440	14.6	69.5	256157	5	US-10-087-192-1204	Sequence 1204, App							
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C 443	14.6	69.5	1980090	8	US-10-741-600-17676	Sequence 17676, A							
C 444	14.4	68.6	25	8	US-10-719-900-709979	Sequence 70979, A							
C 445	14.4	68.6	25	9	US-10-956-157-48992	Sequence 48992, A							
C 446	14.4	68.6	25	9	US-10-956-157-49005	Sequence 49005, A							
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C 448	14.4	68.6	25	10	US-11-060-756-50526	Sequence 50526, A							
C 449	14.4	68.6	29	8	US-10-015-989A-49	Sequence 49, Appl							
C 450	14.4	68.6	41	7	US-10-377-972C-8	Sequence 8, Appl							
C 451	14.4	68.6	41	7	US-10-377-972C-9	Sequence 9, Appl							
C 452	14.4	68.6	60	3	US-09-908-975-8744	Sequence 8744, App							
C 453	14.4	68.6	96	3	US-09-294-093B-5076	Sequence 5076, App							
C 454	14.4	68.6	121	6	US-10-307-005-81	Sequence 81, Appl							
C 455	14.4	68.6	121	6	US-10-307-005-82	Sequence 82, Appl							
C 456	14.4	68.6	121	6	US-10-307-005-85	Sequence 85, Appl							
C 457	14.4	68.6	121	6	US-10-307-005-86	Sequence 86, Appl							
C 458	14.4	68.6	121	6	US-10-307-005-125	Sequence 125, App							
C 459	14.4	68.6	121	6	US-10-307-005-126	Sequence 126, App							
C 460	14.4	68.6	121	6	US-10-307-005-193	Sequence 193, App							
C 461	14.4	68.6	121	6	US-10-307-005-194	Sequence 194, App							

ALIGNMENTS

RESULT 1
US-10-805-973-3
; Sequence 3, Application US/10805973
; Publication No. US20050208506A1
; GENERAL INFORMATION:
; APPLICANT: Zhao, Chengyan
; APPLICANT: Ascenzi, Robert
; APPLICANT: Singh, Bijay K.
; TITLE OF INVENTION: Methods and Compositions for Analyzing
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Best Local Similarity 100.0%; Pred. No. 0.44; Indels 0; Gaps 0;
Matches 21; Conservative 0; Mismatches 0;
QY 1 CGTCTCCCTATGATCCGAAC 21
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c 96	14.2	67.6	149382	7	US-10-995-561-13272	Sequence 13272, A	c 169	13.6	64.8	201	11	US-11-124-367A-26469	Sequence 26469, A
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c 100	14.2	67.6	166111	11	US-11-112-908-47	Sequence 47, Appl	c 173	13.6	64.8	600	7	US-10-750-623-3318	Sequence 3318, Ap
c 101	14.2	67.6	260209	7	US-10-933-025-23	Sequence 23, Appl	c 174	13.6	64.8	644	6	US-10-063-703-55	Sequence 55, Appl
c 102	14.2	67.6	305312	7	US-10-995-561-13236	Sequence 13236, A	c 175	13.6	64.8	644	11	US-11-102-240-55	Sequence 55, Appl
c 103	14.2	67.6	380749	7	US-10-995-561-13216	Sequence 13216, A	c 176	13.6	64.8	659	7	US-10-750-185-40489	Sequence 40489, A
c 104	14.2	67.6	1080000	7	US-10-928-446A-181	Sequence 1, Appl	c 177	13.6	64.8	659	7	US-10-750-623-40489	Sequence 40489, A
c 105	14.2	67.6	1080000	7	US-10-928-446A-181	Sequence 181, App	c 178	13.6	64.8	885	11	US-11-136-527-394	Sequence 394, App
c 106	14.2	67.6	1080000	7	US-10-928-446A-183	Sequence 183, App	c 179	13.6	64.8	897	5	US-09-978-360A-204	Sequence 304, App
c 107	14.2	67.6	1080000	7	US-10-928-446A-185	Sequence 185, App	c 180	13.6	64.8	1113	7	US-10-525-674-35	Sequence 37, Appl
c 108	14.2	67.6	1080000	7	US-10-928-446A-187	Sequence 187, App	c 181	13.6	64.8	1113	7	US-10-525-674-37	Sequence 37, Appl
c 109	14.2	67.6	1080000	7	US-10-928-446A-189	Sequence 189, App	c 182	13.6	64.8	1121	7	US-10-750-185-41338	Sequence 41338, A
c 110	14.2	67.6	1080000	7	US-10-928-446A-191	Sequence 191, App	c 183	13.6	64.8	1121	7	US-10-750-623-41338	Sequence 41338, A
c 111	14.2	67.6	1080000	7	US-10-928-446A-193	Sequence 193, App	c 184	13.6	64.8	1176	7	US-10-750-185-60783	Sequence 60783, A
c 112	14.2	67.6	1080000	7	US-10-928-446A-195	Sequence 195, App	c 185	13.6	64.8	1176	7	US-10-750-623-60783	Sequence 60783, A
c 113	14.2	67.6	1080000	7	US-10-928-446A-197	Sequence 197, App	c 186	13.6	64.8	1229	7	US-10-750-185-50769	Sequence 50769, A
c 114	14.2	67.6	1080000	7	US-10-928-446A-199	Sequence 199, App	c 187	13.6	64.8	1229	7	US-10-750-623-50769	Sequence 50769, A
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c 116	14.2	67.6	1082144	11	US-11-117-187-211	Sequence 211, App	c 189	13.6	64.8	1232	7	US-10-750-623-54564	Sequence 54564, A
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c 118	14	66.7	4291	11	US-11-175-859-78768	Sequence 78768, A	c 191	13.6	64.8	1251	7	US-10-750-623-52860	Sequence 52860, A
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c 120	14	66.7	4507	11	US-11-136-527-1960	Sequence 1960, Ap	c 193	13.6	64.8	1352	7	US-10-750-623-27965	Sequence 27965, A
c 121	13.8	65.7	20	7	US-10-310-914A-877888	Sequence 877888, A	c 194	13.6	64.8	1377	7	US-10-750-185-41502	Sequence 41502, A
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c 124	13.8	65.7	25	11	US-11-121-849-516745	Sequence 516745, A	c 197	13.6	64.8	1860	11	US-11-136-527-2170	Sequence 2170, Ap
c 125	13.8	65.7	201	7	US-10-995-561-3579	Sequence 3579, Ap	c 198	13.6	64.8	1917	11	US-11-226-701-14	Sequence 14, Appl
c 126	13.8	65.7	201	7	US-10-995-561-3988	Sequence 3988, Ap	c 199	13.6	64.8	1922	7	US-10-750-185-55146	Sequence 55146, A
c 127	13.8	65.7	201	7	US-10-995-561-35172	Sequence 35172, A	c 200	13.6	64.8	1922	7	US-10-750-623-55146	Sequence 55146, A
c 128	13.8	65.7	734	11	US-11-120-308-31	Sequence 31, Appl	c 201	13.6	64.8	1945	11	US-11-024-959-136	Sequence 136, App
c 129	13.8	65.7	1728	7	US-10-750-185-42417	Sequence 42417, A	c 202	13.6	64.8	1960	7	US-10-750-185-34451	Sequence 34451, A
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c 132	13.8	65.7	2121	11	US-11-055-822-47	Sequence 47, Appl	c 205	13.6	64.8	1962	7	US-10-750-623-44857	Sequence 44857, A
c 133	13.8	65.7	2432	11	US-11-136-527-3714	Sequence 3714, Ap	c 206	13.6	64.8	1964	11	US-11-157-996-1	Sequence 1, Appl
c 134	13.8	65.7	2991	8	US-11-072-512-1527	Sequence 1527, Ap	c 207	13.6	64.8	2001	11	US-11-043-752-3895	Sequence 3895, Ap
c 135	13.8	65.7	3201	7	US-10-750-185-35734	Sequence 35734, A	c 208	13.6	64.8	2059	11	US-11-124-367A-243	Sequence 243, App
c 136	13.8	65.7	3201	7	US-10-750-623-35734	Sequence 35734, A	c 209	13.6	64.8	2242	11	US-11-124-367A-241	Sequence 241, App
c 137	13.8	65.7	91561	11	US-11-136-527-494	Sequence 494, App	c 210	13.6	64.8	2249	11	US-11-136-527-23988	Sequence 23988, Ap
c 138	13.8	65.7	91561	11	US-11-124-368A-2896	Sequence 2896, Ap	c 211	13.6	64.8	2263	7	US-10-750-185-49178	Sequence 49178, A
c 139	13.8	65.7	93112	7	US-10-995-561-13234	Sequence 13234, A	c 212	13.6	64.8	2263	7	US-10-750-623-49178	Sequence 49178, A
c 140	13.8	65.7	114801	11	US-11-121-086-22	Sequence 22, Appl	c 213	13.6	64.8	2495	11	US-11-124-367A-242	Sequence 242, App
c 141	13.8	65.7	157230	11	US-11-112-908-64	Sequence 64, Appl	c 214	13.6	64.8	2721	11	US-11-124-367A-240	Sequence 64, Appl
c 142	13.8	65.7	170508	11	US-11-112-908-62	Sequence 62, Appl	c 215	13.6	64.8	2738	11	US-11-122-329-66	Sequence 66, Appl
c 143	13.8	65.7	173115	11	US-11-112-908-65	Sequence 65, Appl	c 216	13.6	64.8	2976	8	US-11-072-512-654	Sequence 654, App
c 144	13.8	65.7	340000	11	US-11-102-978-3	Sequence 3, Appl	c 217	13.6	64.8	3037	7	US-10-750-185-55538	Sequence 55538, A
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c 146	13.6	64.8	25	11	US-11-136-527-296394	Sequence 296394, A	c 219	13.6	64.8	3070	7	US-10-927-641-113	Sequence 113, App
c 147	13.6	64.8	29	7	US-10-392-234A-24	Sequence 24, Appl	c 220	13.6	64.8	3112	7	US-10-750-185-61978	Sequence 61978, A
c 148	13.6	64.8	121	11	US-11-124-367A-4815	Sequence 4815, Ap	c 221	13.6	64.8	3112	7	US-10-750-623-61978	Sequence 61978, A
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c 152	13.6	64.8	201	7	US-10-995-561-40639	Sequence 40639, A	c 225	13.6	64.8	3905	7	US-10-750-185-29868	Sequence 29868, A
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c 155	13.6	64.8	201	11	US-11-124-368A-14844	Sequence 14844, A	c 228	13.6	64.8	4509	7	US-10-678-790-45	Sequence 45, Appl
c 156	13.6	64.8	201	11	US-11-124-368A-14961	Sequence 14961, A	c 229	13.6	64.8	28672	6	US-10-893-483-62	Sequence 62, Appl
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c 160	13.6	64.8	201	11	US-11-124-367A-4736	Sequence 4736, Ap	c 233	13.6	64.8	76129	11	US-10-995-561-13342	Sequence 16, Appl
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c 163	13.6	64.8	201	11	US-11-124-367A-4762	Sequence 4762, Ap	c 236	13.6	64.8	83712	7	US-10-995-561-13366	Sequence 13366, A
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c 165	13.6	64.8	201	11	US-11-124-367A-4790	Sequence 4790, Ap	c 238	13.6	64.8	95223	11	US-11-117-187-188	Sequence 188, App
c 166	13.6	64.8	201	11	US-11-124-367A-21567	Sequence 21567, A	c 239	13.6	64.8	95604	11	US-11-124-367A-5097	Sequence 5097, Ap
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c 242	13.6	64.8	100000	11	US-11-124-367A-5058	Sequence 5058, Ap	c 315	13.4	63.8	162013	11	US-11-150-888-30	Sequence 30, Appl
c 243	13.6	64.8	109974	11	US-11-117-204	Sequence 204, App	c 316	13.4	63.8	207600	11	US-11-112-908-31	Sequence 31, Appl
c 244	13.6	64.8	118996	11	US-11-121-086-84	Sequence 84, Appl	c 317	13.2	62.9	25	11	US-11-121-849-12244	Sequence 12244, A
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c 246	13.6	64.8	139054	11	US-11-121-086-96	Sequence 96, Appl	c 319	13.2	62.9	25	11	US-11-121-849-315867	Sequence 315867, A
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c 248	13.6	64.8	175023	11	US-11-121-086-18	Sequence 18, Appl	c 321	13.2	62.9	25	11	US-11-136-527-240615	Sequence 240615, A
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c 250	13.6	64.8	190882	11	US-11-121-086-69	Sequence 69, Appl	c 323	13.2	62.9	50	11	US-11-175-859-101200	Sequence 101200, A
c 251	13.6	64.8	212805	11	US-11-112-908-19	Sequence 19, Appl	c 324	13.2	62.9	120	7	US-10-467-657-753	Sequence 753, App
c 252	13.6	64.8	268685	7	US-10-933-025-22	Sequence 22, Appl	c 325	13.2	62.9	198	7	US-10-467-657-889	Sequence 889, App
c 253	13.6	64.8	611587	11	US-11-117-187-209	Sequence 209, App	c 326	13.2	62.9	201	7	US-10-995-561-19126	Sequence 19126, A
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c 261	13.6	64.8	1080000	7	US-10-928-446A-193	Sequence 193, App	c 334	13.2	62.9	531	11	US-11-128-061-2723	Sequence 2723, Ap
c 262	13.6	64.8	1080000	7	US-10-928-446A-195	Sequence 195, App	c 335	13.2	62.9	531	11	US-11-128-061-6365	Sequence 6365, Ap
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c 266	13.6	64.8	1082144	11	US-11-117-187-211	Sequence 211, App	c 339	13.2	62.9	615	7	US-10-467-657-4335	Sequence 4335, Ap
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ALIGNMENTS

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 ; APPLICANT: Birk, Iwona
 ; APPLICANT: Singh, Bijay K
 ; APPLICANT: Parker, Gregory B
 ; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING MATURE AHASL PROTEINS FOR CREATING
 ; TITLE OF INVENTION: IMIDAZOLINONE-TOLERANT PLANTS
 ; FILE REFERENCE: 038867/293234
 ; CURRENT APPLICATION NUMBER: US/11/152,903
 ; CURRENT FILING DATE: 2005-06-15
 ; PRIOR APPLICATION NUMBER: 60/580,021
 ; PRIOR FILING DATE: 2004-06-16
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SUMMARIES

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74	16.8	80.0	205813	14	CR385054
75	16.8	80.0	212050	1	AL646060 Ralestonia
76	16.4	78.1	2736	6	AR389637 Sequence
77	16.4	78.1	110000	15	AP008211_170
78	16.4	78.1	148373	15	AC134348
79	16.4	78.1	164064	15	AC135929
80	16.4	78.1	167387	5	AL928980 Zebrafish
81	16.4	78.1	184532	14	CR759951
82	16.4	78.1	200179	5	EX950183 Zebrafish
83	16.4	78.1	243357	14	AC098495
84	16.2	77.1	372	6	I07762 Sequence 18
85	16.2	77.1	501	3	AY369167 Unculture
86	16.2	77.1	676	6	AX006313 Sequence
87	16.2	77.1	898	5	CR760878 Xenopus t
88	16.2	77.1	909	5	BC061296 Xenopus t
89	16.2	77.1	1112	15	BT019211 Zea mays
90	16.2	77.1	1680	6	CQ866946 Sequence
91	16.2	77.1	1901	15	BT016825 Zea mays

92	16.2	77.1	1935	6	AX705283	Sequence	AX705283	Sequence	1935	15.8	75.2	465	6	AX438855	Sequence	AX438855
93	16.2	77.1	1969	6	I93632	Sequence 1	I93632	Sequence 1	166	15.8	75.2	465	6	AX438855	Sequence	AX438855
94	16.2	77.1	1969	6	I93633	Sequence 2	I93633	Sequence 2	167	15.8	75.2	2337	6	AX51076	Drosophil	AX51076
95	16.2	77.1	1969	6	I93634	Sequence 3	I93634	Sequence 3	c 168	15.8	75.2	4600	1	AF014054	Rhizobium	AF014054
96	16.2	77.1	1969	6	AR227736	Sequence	AR227736	Sequence	c 169	15.8	75.2	4707	5	GGERMPROT	G.gallus mR	X91638
97	16.2	77.1	1969	6	AR227737	Sequence	AR227737	Sequence	c 170	15.8	75.2	5481	2	AY551073	Drosophil	AY551073
98	16.2	77.1	1969	6	AR227738	Sequence	AR227738	Sequence	c 171	15.8	75.2	5487	6	CQ363868	Sequence	CQ363868
99	16.2	77.1	2089	6	AI9545	Synthetic n	AI9545	Synthetic n	172	15.8	75.2	8856	2	AY551075	Drosophil	AY551075
100	16.2	77.1	2141	6	AI9547	Synthetic n	AI9547	Synthetic n	173	15.8	75.2	11851	1	AE009504	Brucella	AE009504
101	16.2	77.1	2185	15	AI08628	Oryza sat	AI08628	Oryza sat	c 174	15.8	75.2	13070	1	AF039306	Bradyrhiz	AF039306
102	16.2	77.1	2208	15	ASU5852	Amaranthus	ASU5852	Amaranthus	c 175	15.8	75.2	18912	13	ILU28832	Infectious	U28832
103	16.2	77.1	2226	6	AI9546	Synthetic n	AI9546	Synthetic n	c 176	15.8	75.2	18912	13	ILU28832	Infectious	U28832
104	16.2	77.1	2279	6	BD169500	A gene co	BD169500	A gene co	c 177	15.8	75.2	18913	6	AR649718	Sequence	AR649718
105	16.2	77.1	2279	6	AX300475	Sequence	AX300475	Sequence	c 178	15.8	75.2	18913	6	AR649718	Sequence	AR649718
106	16.2	77.1	2279	15	AB049823	Oryza sat	AB049823	Oryza sat	c 179	15.8	75.2	31271	6	CQ609503	Sequence	CQ609503
107	16.2	77.1	2301	6	AX300473	Sequence	AX300473	Sequence	c 180	15.8	75.2	71807	15	AB025613	Arabidops	AB025613
108	16.2	77.1	2301	15	AB049822	Oryza sat	AB049822	Oryza sat	c 181	15.8	75.2	106659	14	AC020331	Drosophil	AC020331
109	16.2	77.1	2544	15	ZMAHAS109	Z.mays gene	X63554	Z.mays gene	c 182	15.8	75.2	110000	1	AE014291_13	Continuation (14 o	Continuation (14 o
110	16.2	77.1	2545	6	I07769	Sequence 25	I07769	Sequence 25	c 183	15.8	75.2	110000	1	AE017283_13	Continuation (10 o	Continuation (10 o
111	16.2	77.1	2664	15	ZMAHAS108	Z.mays gene	X63553	Z.mays gene	c 184	15.8	75.2	110000	1	AE017283_09	Continuation (12 o	Continuation (12 o
112	16.2	77.1	2967	6	I07767	Sequence 23	I07767	Sequence 23	c 185	15.8	75.2	110000	1	BA000012_11	Continuation (57 o	Continuation (57 o
113	16.2	77.1	3237	6	CQ719762	Sequence	CQ719762	Sequence	c 186	15.8	75.2	110000	1	BA000019_56	Continuation (83 o	Continuation (83 o
114	16.2	77.1	6041	8	AB033036	Homo sapi	AB033036	Homo sapi	c 187	15.8	75.2	110000	1	BA000040_82	Continuation (84 o	Continuation (84 o
115	16.2	77.1	11202	1	AE006169	Pasteurell	AE006169	Pasteurell	c 188	15.8	75.2	110000	1	BA000040_83	Continuation (23 o	Continuation (23 o
116	16.2	77.1	13163	1	AY050714	Salmonell	AY050714	Salmonell	c 189	15.8	75.2	110000	1	EX950851_45	Continuation (7 of	Continuation (7 of
117	16.2	77.1	18995	6	CQ866935	Sequence	CQ866935	Sequence	c 190	15.8	75.2	110000	15	CR382125_06	Continuation (7 of	Contin

238	15.4	73.3	8533	1	AY512399	AY512399 Listeria	C 311	15.4	73.3	159314	14	AC162860	AC162860 Mus muscu
239	15.4	73.3	8542	1	AY512500	AY512500 Listeria	C 312	15.4	73.3	166465	9	AL732528	AL732528 Mouse DNA
240	15.4	73.3	8543	1	AY512393	AY512393 Listeria	C 313	15.4	73.3	169587	14	CR932000	CR932000 Danio rer
241	15.4	73.3	8543	1	AY512400	AY512400 Listeria	C 314	15.4	73.3	172885	9	AC110555	AC110555 Mus muscu
242	15.4	73.3	8543	1	AY512425	AY512425 Listeria	C 315	15.4	73.3	177551	14	CR099634	CR099634 Mus muscu
243	15.4	73.3	8543	1	AY512427	AY512427 Listeria	C 316	15.4	73.3	186497	14	CR933524	CR933524 Danio rer
244	15.4	73.3	8543	1	AY512434	AY512434 Listeria	C 317	15.4	73.3	188716	14	AC147323	AC147323 Pan trogl
245	15.4	73.3	8543	1	AY512440	AY512440 Listeria	C 318	15.4	73.3	190220	14	AC163923	AC163923 Bos tauru
246	15.4	73.3	8543	1	AY512447	AY512447 Listeria	C 319	15.4	73.3	199080	14	AC127232	AC127232 Mus muscu
247	15.4	73.3	8543	1	AY512448	AY512448 Listeria	C 320	15.4	73.3	201610	9	AL732430	AL732430 Mouse DNA
248	15.4	73.3	8543	1	AY512451	AY512451 Listeria	C 321	15.4	73.3	208024	8	AC010900	AC010900 Homo sapi
249	15.4	73.3	8543	1	AY512456	AY512456 Listeria	C 322	15.4	73.3	240230	14	AC094364	AC094364 Rattus no
250	15.4	73.3	8543	1	AY512458	AY512458 Listeria	C 323	15.4	73.3	243486	14	AC153262	AC153262 Bos tauru
251	15.4	73.3	8543	1	AY512464	AY512464 Listeria	C 324	15.4	73.3	254553	14	AC160370	AC160370 Bos tauru
252	15.4	73.3	8546	1	AY512394	AY512394 Listeria	C 325	15.4	73.3	256941	14	AC156238	AC156238 Bos tauru
253	15.4	73.3	8546	1	AY512395	AY512395 Listeria	C 326	15.4	73.3	256941	14	AC156238	AC156238 Bos tauru
254	15.4	73.3	8546	1	AY512406	AY512406 Listeria	C 327	15.4	73.3	230841	1	AB017322	AB017322 Listeria
255	15.4	73.3	8546	1	AY512408	AY512408 Listeria	C 328	15.4	73.3	230841	1	AB017322	AB017322 Listeria
256	15.4	73.3	8546	1	AY512414	AY512414 Listeria	C 329	15.2	72.4	285	8	HSJ8170	HSJ8170 Homo sapi
257	15.4	73.3	8546	1	AY512416	AY512416 Listeria	C 330	15.2	72.4	415	6	AX385809	AX385809 Sequence
258	15.4	73.3	8546	1	AY512420	AY512420 Listeria	C 331	15.2	72.4	527	10	BV328453	BV328453 S241P6235
259	15.4	73.3	8546	1	AY512423	AY512423 Listeria	C 332	15.2	72.4	578	1	AF517568	AF517568 Desulfito
260	15.4	73.3	8546	1	AY512424	AY512424 Listeria	C 333	15.2	72.4	632	8	HSJ26311	HSJ26311 Homo sapi
261	15.4	73.3	8546	1	AY512429	AY512429 Listeria	C 334	15.2	72.4	642	6	AR676848	AR676848 Sequence
262	15.4	73.3	8546	1	AY512431	AY512431 Listeria	C 335	15.2	72.4	666	6	AR676848	AR676848 Sequence
263	15.4	73.3	8546	1	AY512432	AY512432 Listeria	C 336	15.2	72.4	940	8	HUMIL2A1	M33199 Human inter
264	15.4	73.3	8546	1	AY512435	AY512435 Listeria	C 337	15.2	72.4	972	2	AY562982	AY562982 Drosophil
265	15.4	73.3	8546	1	AY512436	AY512436 Listeria	C 338	15.2	72.4	1053	6	AR385200	AR385200 Sequence
266	15.4	73.3	8546	1	AY512437	AY512437 Listeria	C 339	15.2	72.4	1219	2	AKL15839	AKL15839 Clona int
267	15.4	73.3	8546	1	AY512441	AY512441 Listeria	C 340	15.2	72.4	1329	5	BC076943	BC076943 Xenopus t
268	15.4	73.3	8546	1	AY512445	AY512445 Listeria	C 341	15.2	72.4	1587	5	AB120295	AB120295 Takifugu
269	15.4	73.3	8546	1	AY512449	AY512449 Listeria	C 342	15.2	72.4	1605	15	AK099799	AK099799 Oryza sat
270	15.4	73.3	8546	1	AY512450	AY512450 Listeria	C 343	15.2	72.4	1630	6	CO596259	CO596259 Sequence
271	15.4	73.3	8546	1	AY512455	AY512455 Listeria	C 344	15.2	72.4	1656	6	AX534871	AX534871 Sequence
272	15.4	73.3	8546	1	AY512461	AY512461 Listeria	C 345	15.2	72.4	1693	4	AB038268	AB038268 Tursiops
273	15.4	73.3	8546	1	AY512463	AY512463 Listeria	C 346	15.2	72.4	1774	2	TRBKP56	M37784 Trypanosoma
274	15.4	73.3	8546	1	AY512465	AY512465 Listeria	C 347	15.2	72.4	1789	2	AY572498	AY572498 Drosophil
275	15.4	73.3	8546	1	AY512466	AY512466 Listeria	C 348	15.2	72.4	1952	8	HUMIL2PR	M13879 Human inter
276	15.4	73.3	8546	1	AY512467	AY512467 Listeria	C 349	15.2	72.4	2000	6	AX656665	AX656665 Sequence
277	15.4	73.3	8546	1	AY512491	AY512491 Listeria	C 350	15.2	72.4	2020	15	AK069807	AK069807 Oryza sat
278	15.4	73.3	8546	1	AY512492	AY512492 Listeria	C 351	15.2	72.4	2139	8	BC023017	BC023017 Homo sapi
279	15.4	73.3	8649	1	AY512481	AY512481 Listeria	C 352	15.2	72.4	2356	2	AKL16415	AKL16415 Clona int
280	15.4	73.3	8650	1	AY512452	AY512452 Listeria	C 353	15.2	72.4	2367	6	CQ724696	CQ724696 Sequence
281	15.4	73.3	8650	1	AY512471	AY512471 Listeria	C 354	15.2	72.4	2387	2	AY119567	AY119567 Drosophil
282	15.4	73.3	8650	1	AY512473	AY512473 Listeria	C 355	15.2	72.4	2508	1	BFU64312	BFU64312 Bacillus fi
283	15.4	73.3	8651	1	AY512391	AY512391 Listeria	C 356	15.2	72.4	2623	9	RATNACE	L14284 Rattus norv
284	15.4	73.3	8651	1	AY512396	AY512396 Listeria	C 357	15.2	72.4	2624	6	I35597	I35597 Sequence 15
285	15.4	73.3	8651	1	AY512398	AY512398 Listeria	C 358	15.2	72.4	2722	6	CQ845753	CQ845753 Sequence
286	15.4	73.3	8651	1	AY512401	AY512401 Listeria	C 359	15.2	72.4	2722	8	AKL131230	AKL131230 Homo sapi
287	15.4	73.3	8651	1	AY512410	AY512410 Listeria	C 360	15.2	72.4	2820	6	AR449815	AR449815 Sequence
288	15.4	73.3	8651	1	AY512415	AY512415 Listeria	C 361	15.2	72.4	3144	6	CQ848018	CQ848018 Sequence
289	15.4	73.3	8651	1	AY512426	AY512426 Listeria	C 362	15.2	72.4	3150	6	AX534814	AX534814 Sequence
290	15.4	73.3	8651	1	AY512439	AY512439 Listeria	C 363	15.2	72.4	3162	8	BC096341	BC096341 Homo sapi
291	15.4	73.3	8651	1	AY512457	AY512457 Listeria	C 364	15.2	72.4	3234	8	BC096342	BC096342 Homo sapi
292	15.4	73.3	8651	1	AY512459	AY512459 Listeria	C 365	15.2	72.4	3234	8	BC096343	BC096343 Homo sapi
293	15.4	73.3	8651	1	AY512460	AY512460 Listeria	C 366	15.2	72.4	3306	2	TRBKP56GM	M33775 T. brucei ki
294	15.4	73.3	8651	1	AY512474	AY512474 Listeria	C 367	15.2	72.4	3352	2	TBPGKBC	X03370 Trypanosoma
295	15.4	73.3	8651	1	AY512489	AY512489 Listeria	C 368	15.2	72.4	3404	6	AR204198	AR204198 Sequence
296	15.4	73.3	8651	1	AY512501	AY512501 Listeria	C 369	15.2	72.4	3404	6	AR637547	AR637547 Sequence
297	15.4	73.3	10049	1	AB006133	AB006133 Pasteurel	C 370	15.2	72.4	3482	8	HSJ5282	HSJ5282 Homo sapi
298	15.4	73.3	24949	1	AF498403	AF498403 Pseudomon	C 371	15.2	72.4	3630	6	CQ596258	CQ596258 Sequence
299	15.4	73.3	69863	8	AC026717	AC026717 Homo sapi	C 372	15.2	72.4	4081	8	HUMGUANCYC	L13436 Homo sapien
300	15.4	73.3	92488	14	AP007315	AP007315 Lotus cor	C 373	15.2	72.4	4110	15	AY437823	AY437823 Kluyverom
301	15.4	73.3	104940	8	AC035147	AC035147 Homo sapi	C 374	15.2	72.4	4190	6	AR204261	AR204261 Sequence
302	15.4	73.3	107559	5	EX837670	EX837670 Zebrafish	C 375	15.2	72.4	4190	6	AR637610	AR637610 Sequence
303	15.4	73.3	110000	15	BA000045	Continuation (46 of	C 376	15.2	72.4	4449	15	GMCHLH	AJ001091 Glycine m
304	15.4	73.3	110000	15	AB016819	Continuation (7 of	C 377	15.2	72.4	4517	1	AF354273	AF354273 Lactobaci
305	15.4	73.3	110000	15	AB017346	Continuation (8 of	C 378	15.2	72.4	4776	15	AY437825	AY437825 Kluyverom
306	15.4	73.3	110000	15	AB017346_08	Continuation (9 of	C 379	15.2	72.4	5162	2	TBPGK4	X05890 Trypanosoma
307	15.4	73.3	125429	14	AC163967	AC163967 Loxodonta	C 380	15.2	72.4	5224	2	TBPGK2	X05889 Trypanosoma
308	15.4	73.3	130811	14	AC165208	AC165208 Loxodonta	C 381	15.2	72.4	5227	15	AY227810	AY227810 Emericell
309	15.4	73.3	139377	8	AC026692	AC026692 Homo sapi	C 382	15.2	72.4	5450	15	AF262214	AF262214 Oryza sat
310	15.4	73.3	148202	9	AL928553	AL928553 Mouse DNA	C 383	15.2	72.4	6050	1	STVCYSJIHA	M23007 S.typhimuri

384	15.2	72.4	6334	2	AY705681	AY705681 Oikopleur	457	15.2	72.4	110000	1	BA000039_03	Continuation (4 of	
385	15.2	72.4	6452	1	AB016764	X006164 Escherich	458	15.2	72.4	110000	1	BA000040_86	Continuation (87 of	
386	15.2	72.4	6684	8	HSIL05	X00695 Human inter	C 459	15.2	72.4	110000	1	BA000043_13	Continuation (14 of	
387	15.2	72.4	6752	8	AF359939	AF359939 Homo sapi	C 460	15.2	72.4	110000	1	BA000043_14	Continuation (15 of	
388	15.2	72.4	7177	8	AB005647	AB005647 Homo sapi	461	15.2	72.4	110000	1	EX936398_36	Continuation (37 of	
C 389	15.2	72.4	7991	6	C0872937	C0872937 Sequence	462	15.2	72.4	110000	1	CP000057_09	Continuation (10 of	
390	15.2	72.4	9339	8	HSIL25FL	X67285 Homo sapien	463	15.2	72.4	110000	2	AE002665_0	AE002665 Drosophil	
391	15.2	72.4	9863	15	AY437828	AY437828 Kluverom	464	15.2	72.4	110000	2	AE002665_1	Continuation (2 of	
392	15.2	72.4	10097	1	AE009649	AE009649 Brucella	465	15.2	72.4	110000	6	BD426631_08	Continuation (9 of	
C 393	15.2	72.4	10302	1	AE006319	AE006319 Lactococc	466	15.2	72.4	110000	6	BD426631_09	Continuation (10 of	
394	15.2	72.4	10686	1	AE013921	AE013921 Yersinia	467	15.2	72.4	110000	6	AR274513_08	Continuation (9 of	
395	15.2	72.4	10818	1	AE015669	AE015669 Shewanell	468	15.2	72.4	110000	6	AR274513_09	Continuation (10 of	
396	15.2	72.4	10859	1	AE015806	AE015806 Shewanell	469	15.2	72.4	110000	6	AR632719_08	Continuation (9 of	
397	15.2	72.4	11168	1	AE004425	AE004425 Vibrio ch	470	15.2	72.4	110000	6	AR632719_09	Continuation (10 of	
C 398	15.2	72.4	11481	6	AR204358	AR204358 Sequence	C 471	15.2	72.4	110000	14	AC095603_2	Continuation (3 of	
C 399	15.2	72.4	11481	6	AR637707	AR637707 Sequence	C 472	15.2	72.4	110000	14	AC095603_3	Continuation (4 of	
400	15.2	72.4	13313	1	U32767	U32767 Haemophilus	C 473	15.2	72.4	110000	14	AC139250_0	AC139250 Homo sapi	
401	15.2	72.4	13916	1	AE009507	AE009507 Brucella	474	15.2	72.4	110000	14	AP006493_4	Continuation (5 of	
C 402	15.2	72.4	14375	1	AE009631	AE009631 Brucella	475	15.2	72.4	110000	14	CT009753_07	Continuation (8 of	
C 403	15.2	72.4	15506	15	CR382124_17	Continuation (18 o	C 476	15.2	72.4	110000	14	TANN2_09	Continuation (10 of	
404	15.2	72.4	16103	14	AC019502	AC019502 Drosophil	477	15.2	72.4	110000	15	CR382121_00	CR382121 Kluverom	
C 405	15.2	72.4	16157	14	AC012931	AC012931 Drosophil	478	15.2	72.4	110000	15	CR382122_00	Continuation (2 of	
C 406	15.2	72.4	20029	1	AE008834	AE008834 Salmonell	C 479	15.2	72.4	110000	15	CR382122_01	Continuation (2 of	
407	15.2	72.4	24199	6	BD184782	BD184782 Nucleic a	480	15.2	72.4	110000	15	CR382123_00	CR382123 Kluverom	
C 408	15.2	72.4	29500	2	AF036694	AF036694 Caenorhab	481	15.2	72.4	110000	15	CR382124_00	CR382124 Kluverom	
C 409	15.2	72.4	32838	2	AF003385	AF003385 Caenorhab	482	15.2	72.4	110000	15	CR382125_00	CR382125 Kluverom	
410	15.2	72.4	32880	1	AY144118	AY144118 Photorhab	483	15.2	72.4	110000	15	CR382126_00	CR382126 Kluverom	
411	15.2	72.4	35295	15	AC151931	AC151931 Phaeodact	C 484	15.2	72.4	110000	15	CR382137_11	Continuation (12 o	
C 412	15.2	72.4	37210	3	AC160630	AC160630 Unculture	485	15.2	72.4	110000	15	AE016816_7	Continuation (8 of	
C 413	15.2	72.4	39824	6	BD184776	BD184776 Nucleic a	486	15.2	72.4	110000	15	AE017347_07	Continuation (8 of	
C 414	15.2	72.4	40715	2	AC132166	AC132166 Drosophil	487	15.2	72.4	110000	15	AP008207_077	Continuation (78 o	
C 415	15.2	72.4	43487	2	AF016420	AF016420 Caenorhab	488	15.2	72.4	110000	15	AP008209_063	Continuation (64 o	
C 416	15.2	72.4	54841	14	AC017535	AC017535 Drosophil	C 489	15.2	72.4	110000	15	AP008209_260	Continuation (261	
C 417	15.2	72.4	62204	1	AE017224_11	Continuation (12 o	C 490	15.2	72.4	110000	15	AP008209_293	Continuation (294	
418	15.2	72.4	63215	14	AC061968	AC061968 Homo sapi	C 491	15.2	72.4	110000	15	AP008213_291	Continuation (292	
419	15.2	72.4	64357	14	AC101115	AC101115 Mus muscu	C 492	15.2	72.4	113843	8	AC005033_	AC005033 Homo sapi	
420	15.2	72.4	65612	2	AE003597_3	Continuation (4 of	C 493	15.2	72.4	117666	15	AC142507	AC142507 Medicago	
C 421	15.2	72.4	65792	6	RA08752_	AR08752 Sequence	494	15.2	72.4	120882	14	AC010689	AC010689 Drosophil	
C 422	15.2	72.4	65792	6	AX067456	AX067456 Sequence	495	15.2	72.4	124103	15	AC122166	AC122166 Medicago	
C 423	15.2	72.4	67027	14	AC135342	AC135342 Homo sapi	496	15.2	72.4	126228	8	AC006543	AC006543 Homo sapi	
C 424	15.2	72.4	67203	14	AC090264	AC090264 Homo sapi	C 497	15.2	72.4	126475	14	AC123787	AC123787 Homo sapi	
C 425	15.2	72.4	71948	8	AL831782	AL831782 Human DNA	C 498	15.2	72.4	129053	15	AC142096	AC142096 Medicago	
C 426	15.2	72.4	78688	15	AE017349_11	Continuation (12 o	C 499	15.2	72.4	129440	15	AC135228	AC135228 Oryza sat	
C 427	15.2	72.4	79229	14	AC139541_	AC139541 Homo sapi	C 500	15.2	72.4	130973	15	AP003813	AP003813 Oryza sat	
C 428	15.2	72.4	81236	15	AC007168	AC007168 Arabidops								
C 429	15.2	72.4	84157	15	AB028615	AB028615 Arabidops								
C 430	15.2	72.4	85389	14	AC139309	AC139309 Takifugu								
C 431	15.2	72.4	87500	1	AF027868	AF027868 Bacillus								
C 432	15.2	72.4	90831	8	AC003065	AC003065 Homo sapi								
433	15.2	72.4	91772	6	BD184765	BD184765 Nucleic a								
434	15.2	72.4	92345	8	AC128687	AC128687 Homo sapi								
435	15.2	72.4	94203	14	AC023907	AC023907 Homo sapi								
C 436	15.2	72.4	94720	6	AX695545	AX695545 Sequence								
C 437	15.2	72.4	98605	14	AC024574	AC024574 Homo sapi								
C 438	15.2	72.4	100635	8	AC003104	AC003104 Homo sapi								
C 439	15.2	72.4	104150	14	CT010521	CT010521 Medicago								
C 440	15.2	72.4	104780	8	HSIL18SH19	AL121982 Human DNA								
441	15.2	72.4	105035	14	AC145452	AC145452 Zea mays								
C 442	15.2	72.4	106214	15	AP003818	AP003818 Oryza sat								
C 443	15.2	72.4	107381	1	AE014292_11	Continuation (12 o								
C 444	15.2	72.4	107794	1	AE014291_20	Continuation (21 o								
C 445	15.2	72.4	110000	1	AE005174_19	Continuation (20 o								
446	15.2	72.4	110000	1	AE005174_21	Continuation (22 o								
447	15.2	72.4	110000	1	AE005174_35	Continuation (36 o								
448	15.2	72.4	110000	1	RME591985_02	Continuation (3 of								
449	15.2	72.4	110000	1	AE017220_27	Continuation (28 o								
C 450	15.2	72.4	110000	1	AE017220_30	Continuation (31 o								
C 451	15.2	72.4	110000	1	AE017223_20	Continuation (21 o								
C 452	15.2	72.4	110000	1	BA000007_19	Continuation (20 o								
453	15.2	72.4	110000	1	BA000007_21	Continuation (22 o								
454	15.2	72.4	110000	1	BA000007_34	Continuation (35 o								
C 455	15.2	72.4	110000	1	BA000011_08	Continuation (9 of								
C 456	15.2	72.4	110000	1	BA000037_05	Continuation (6 of								

RESULT 1

AY273827

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

AY273827

Triticum aestivum acetohydroxyacid synthase (lim3) gene, partial cds.

AY273827

AY273827.1

GI:30258990

Triticum aestivum (bread wheat)

Triticum aestivum

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Triticum.

1 (bases 1 to 617)

Pozniak,C.J., Hucl,P.J., Birk,I.T. and Singh,B.K.

Molecular Characterization of Imidazolinone Resistance in Common Wheat

2 (bases 1 to 617)

Pozniak,C.J., Hucl,P.J., Birk,I.T. and Singh,B.K.

Direct Submission

Submitted (10-APR-2003)

Crop Development Centre, Department of Plant Sciences, University of Saskatchewan, 51 Campus Drive, Saskatoon, Saskatchewan S7N 5A8, Canada

ALIGNMENTS

617 bp

DNA

linear

PLN 04-MAY-2003

ALIGNMENTS

RESULT 1	AY273827	AY273827	617 bp	DNA	linear	PLN 04-MAY-2003
LOCUS	AY273827	Triticum aestivum acetohydroxyacid synthase (imi3) gene, partial cds.				
DEFINITION	AY273827	GI:30258990				
ACCESSION	AY273827	GI:30258990				
VERSION	AY273827.1	GI:30258990				
KEYWORDS		Triticum aestivum (bread wheat)				
SOURCE		Triticum aestivum				
ORGANISM		Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae; Triticeae; Triticum.				
REFERENCE	1	(bases 1 to 617)				
AUTHORS		Pozniak, C.J., Hucl, P.J., Birk, I.T. and Singh, B.K.				
TITLE		Molecular Characterization of Imidazolinone Resistance in Common Wheat				
JOURNAL		Unpublished				
REFERENCE	2	(bases 1 to 617)				
AUTHORS		Pozniak, C.J., Hucl, P.J., Birk, I.T. and Singh, B.K.				
TITLE		Direct Submission				
JOURNAL		Submitted (10-APR-2003) Crop Development Centre, Department of Plant Sciences, University of Saskatchewan, 51 Campus Drive, Saskatoon, Saskatchewan S7N 5A8, Canada				

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 177.692 Seconds
(without alignments)
787.645 Million cell updates/sec

Title: US-10-805-973-1

Perfect score: 21

Sequence: 1 ccgcgcgaatgtctatccag 21

Scoring table:

IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

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1: Geneseq1980s.*

2: Geneseq1990s.*

3: Geneseq2000s.*

4: Geneseq2001as.*

5: Geneseq2001bs.*

6: Geneseq2002as.*

7: Geneseq2002bs.*

8: Geneseq2003as.*

9: Geneseq2003bs.*

10: Geneseq2003cs.*

11: Geneseq2003ds.*

12: Geneseq2004as.*

13: Geneseq2004bs.*

14: Geneseq2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	1524	10	Adf50207 Wheat Tea
2	21	100.0	1524	10	Adf50205 Wheat Tea
3	21	100.0	1524	10	Adf50206 Wheat Tea
4	21	100.0	1672	10	Adf50203 Partial T
5	21	100.0	1673	10	Adf50216 Partial A
6	21	100.0	1673	10	Adf50226 Partial A
7	21	100.0	1673	10	Adf50228 Partial A
8	21	100.0	1674	10	Adf50232 Partial A
9	21	100.0	1674	10	Adf50218 Partial A
10	21	100.0	1674	10	Adf50234 Partial A
11	21	100.0	1674	10	Adf50222 Partial A
12	21	100.0	1674	10	Adf50220 Partial A
13	21	100.0	1675	10	Adf50201 Partial T
14	21	100.0	1677	10	Adf50224 Partial A
15	21	100.0	1710	14	Adv11376 Imidazoli
16	21	100.0	1723	14	Adv11358 Imidazoli
17	21	100.0	1756	14	Adv11362 Imidazoli
18	21	100.0	1768	14	Adv11360 Imidazoli
19	21	100.0	1788	14	Adv11372 Durum whe

20	21	100.0	1788	14	ADV11366
21	21	100.0	1788	14	ADV11368
22	21	100.0	1788	14	ADV11364
23	21	100.0	1788	14	ADV11369
24	21	100.0	1788	14	ADV11354
25	21	100.0	1788	14	ADV11374
26	21	100.0	1788	14	ADV11367
27	21	100.0	1788	14	ADV11370
28	19.4	92.4	1673	10	ADF50230
29	19.4	92.4	2461	12	ADO26392
30	19.4	92.4	2520	1	AA81459
31	19.4	92.4	2520	2	AAQ11495
32	19.4	92.4	2520	2	AAQ28388
33	19.4	92.4	2520	2	AAQ81182
34	19.4	92.4	2520	2	AAQ33353
35	19.4	92.4	2520	2	AAQ72862
36	19.4	92.4	2520	2	AAV55872
37	19.4	92.4	2702	6	ABA98839
38	19.4	92.4	2930	2	AAQ11494
39	19.4	92.4	2930	2	AAQ28387
40	19.4	92.4	2930	2	AAQ81181
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42	19.4	92.4	2946	1	AA81458
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44	17.8	84.8	1095	6	ABK14656
45	17.8	84.8	1916	14	ADY79260
46	17.8	84.8	1925	14	ADY79258
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48	17.8	84.8	1940	14	ADY79256
49	17.8	84.8	1956	14	ADY79264
50	17.8	84.8	1985	6	ABK14670
51	17.8	84.8	1986	6	ABK14667
52	17.8	84.8	1986	6	ABK14669
53	17.8	84.8	1986	14	ADY79262
54	16.8	80.0	110000	14	AE839174_00
55	16.8	80.0	110000	14	AE839175_19
56	16.8	80.0	110000	14	AE842401_18
57	16.8	80.0	110000	14	AE842401_19
58	16.8	80.0	110000	14	AE842737_05
59	16.8	80.0	110000	14	AE835723_2
60	16.8	80.0	110000	14	AE835723_3
61	16.4	78.1	391	9	ACH50201
62	16.4	78.1	2736	11	ABD00591
63	16.2	77.1	247	7	ADG65429
64	16.2	77.1	372	2	AAQ03658
65	16.2	77.1	1478	13	AD083726
66	16.2	77.1	1604	13	ADX63188
67	16.2	77.1	1625	13	ADX60490
68	16.2	77.1	1680	13	ADS16666
69	16.2	77.1	1935	10	ADF50214
70	16.2	77.1	1969	2	AAQ34551
71	16.2	77.1	1969	2	AAQ34552
72	16.2	77.1	1969	2	AAQ34553
73	16.2	77.1	1969	2	AAV24025
74	16.2	77.1	1969	2	AAV24026
75	16.2	77.1	1969	2	AAV24027
76	16.2	77.1	1969	6	AB555707
77	16.2	77.1	1969	6	AB555709
78	16.2	77.1	1969	6	AB555708
79	16.2	77.1	2000	11	ACL36828
80	16.2	77.1	2089	2	AAQ25380
81	16.2	77.1	2141	2	AAQ25382
82	16.2	77.1	2216	13	ADX09977
83	16.2	77.1	2226	2	AAQ25381
84	16.2	77.1	2279	6	ABK14658
85	16.2	77.1	2279	6	ABN93939
86	16.2	77.1	2294	10	ADD42026
87	16.2	77.1	2294	10	ADD42024
88	16.2	77.1	2300	10	ADD42022
89	16.2	77.1	2301	6	ABK14657
90	16.2	77.1	2301	10	ADD42020
91	16.2	77.1	2404	13	AAQ18641
92	16.2	77.1	2546	2	AAQ03661

Adv11366	Durum whe
Adv11368	Durum whe
Adv11364	Durum whe
Adv11369	Durum whe
Adv11354	Imidazoli
Adv11374	Durum whe
Adv11367	Durum whe
Adv11370	Durum whe
Adf50230	Partial A
Ado26392	N tabacum
Aan81459	C3 mutant
Aaq11495	Tobacco S
Aaq28388	Gene from
Aaq81182	ALS SURA-
Aat33353	Tobacco h
Aat72862	Tobacco C
Aav55872	Plant ace
Aas98839	N. plumba
Aaq11494	Tobacco S
Aaq28387	Gene from
Aaq81181	ALS SURB-
Aat72863	Tobacco S
Aan81458	Hra mutan
Aat33352	Tobacco h
Adk14656	Rice acet
Ady79260	DNA encod
Ady79258	DNA encod
Ady79266	DNA encod
Ady79256	DNA encod
Ady79264	DNA encod
Abk14670	cDNA enco
Abk14667	Rice acet
Abk14669	cDNA enco
Ady79262	DNA enco
Aeb39174	L. pneumo
Continuation	(20 o
Continuation	(19 o
Continuation	(20 o
Continuation	(6 of
Continuation	(3 of
Continuation	(4 of
Ach50201	Human leu
Abd00591	Klebsiell
Adg65429	Corn seed
Aaq3658	C3aal6eq
Ado83726	Plant ful
Adx63188	Plant ful
Adx60490	Plant ful
Ads16666	B. hensel
Adf50214	Rice ALS/
Aaq34551	Herbicide
Aaq34552	Herbicide
Aaq34553	Herbicide
Aav24025	AHAS clon
Aav24026	AHAS clon
Aav24027	AHAS clon
Ab555707	DNA encod
Ab555709	DNA encod
Ab555708	DNA encod
ACL36828	Rice stre
Aaq25380	Sequence
Aaq25382	Sequence
Adx09977	Plant ful
Aaq25381	Sequence
Abk14658	cDNA enco
ABN93939	Rice acet
Add42026	Rice acet
Add42024	Rice acet
Add42022	Rice acet
Abk14657	Rice acet
Add42020	Rice acet
Adt18641	Plant cDN
Aaq03661	Maize C3

93	16.2	77.1	2967	2	AAQ03659	Aaq03659 Maize C1	c 166	15.2	72.4	3411	13	ACF91674	Acf91674 Human SIR
94	16.2	77.1	3041	12	ACH87580	Ach87580 Human gen	c 167	15.2	72.4	3482	12	ADQ87405	Adq87405 Human tum
95	16.2	77.1	6040	6	ABK92138	Abk92138 Prostate	c 168	15.2	72.4	3482	12	ADQ85051	Adq85051 Human tum
c 96	16.2	77.1	18895	13	ADS16655	Ads16655 B. hensel	c 169	15.2	72.4	3482	13	ACF91673	Acf91673 Human SIR
97	15.8	75.2	450	10	ABX61230	Abx61230 Arabidops	c 170	15.2	72.4	3513	12	ADJ39472	Adj39472 Plant CDN
98	15.8	75.2	465	6	ABK80998	Abk80998 Bacillus	c 171	15.2	72.4	3630	4	ABL17850	Ab117850 Drosophil
99	15.8	75.2	465	6	ABK79979	Abk79979 Bacillus	c 172	15.2	72.4	3630	13	ACN41852	Acn41852 Human dia
c 100	15.8	75.2	687	6	ABQ65737	Abq65737 Arabidops	c 173	15.2	72.4	3697	13	AAQ10324	Aaq10324 Human Nat
101	15.8	75.2	148	14	ADM16700	Adm16700 Eucalyptu	c 174	15.2	72.4	4081	6	ABK83833	Abk83833 Human CDN
102	15.8	75.2	1782	13	ADS59893	Ads59893 Bacterial	c 175	15.2	72.4	4081	10	ADL13820	Adl13820 Osecearth
c 103	15.8	75.2	3250	13	ADT44064	Adt44064 Bacterial	c 176	15.2	72.4	4190	9	ACD19144	Acd19144 E. coli 0
c 104	15.8	75.2	5487	4	AAS59656	Aas59656 Propionib	c 177	15.2	72.4	6752	13	ADS88007	Ads88007 Tumour tr
c 105	15.8	75.2	5487	8	ACF64585	Acf64585 Propionib	c 178	15.2	72.4	7991	13	ADT05514	Adt05514 Haemophil
c 106	15.8	75.2	18912	2	AT44385	At44385 Infectiou	c 179	15.2	72.4	9339	3	AAA34840	Aaa34840 Human ade
c 107	15.8	75.2	18912	2	AT44385	At44385 Infectiou	c 180	15.2	72.4	9339	3	AAF20962	Aaf20962 Human low
108	15.8	75.2	31271	4	ABL26680	Ab126680 Drosophil	c 181	15.2	72.4	9339	10	ABZ96656	Abz96656 Human nuc
c 109	15.8	75.2	79603	13	ABD32968	Abd32968 7	c 182	15.2	72.4	9339	11	ABD20506	Abd20506 Human pul
c 110	15.8	75.2	110000	10	ACF67367	Acf67367 46	c 183	15.2	72.4	11481	9	ACD19241	Acd19241 E. coli 0
c 111	15.8	75.2	110000	10	ACF65388	Acf65388 01	c 184	15.2	72.4	22421	3	AAA34844	Aaa34844 Human ade
c 112	15.8	75.2	110000	10	ACF65388	Acf65388 02	c 185	15.2	72.4	22421	3	AAF20966	Aaf20966 Human low
c 113	15.4	73.3	29	4	AAF16848	Aaf16848 KIAA0559	c 186	15.2	72.4	22421	10	ABZ96660	Abz96660 Human nuc
c 114	15.4	73.3	29	4	AAF17492	Aaf17492 KIAA0559	c 187	15.2	72.4	22421	11	ABD20510	Abd20510 Human pul
c 115	15.4	73.3	29	4	ACN99429	Acn99429 Primer #3	c 188	15.2	72.4	24199	10	ADC01016	Adc01016 Enterohae
c 116	15.4	73.3	29	6	ABT06633	Abt06633 PDZ domai	c 189	15.2	72.4	39824	10	ADC00831	Adc00831 Enterohae
c 117	15.4	73.3	29	6	ABQ96673	Abq96673 KIAA 0559	c 190	15.2	72.4	65792	4	AAF28544	Aaf28544 Genomic f
c 118	15.4	73.3	1263	8	ACA43082	Ac43082 Prokaryot	c 191	15.2	72.4	91740	10	ADC00956	Adc00956 Enterohae
c 119	15.4	73.3	2075	10	ADC30805	Adc30805 Human nov	c 192	15.2	72.4	94719	10	ADZ95902	Adz95902 Human STA
c 120	15.4	73.3	2482	10	ADI02510	Adi02510 Human CDN	c 193	15.2	72.4	94720	9	ADA02654	Ada02654 Human STA
c 121	15.4	73.3	2513	10	ADC32558	Adc32558 Human nov	c 194	15.2	72.4	94720	10	ADB72392	Adb72392 Human STA
c 122	15.4	73.3	3100	10	ADE28226	Adc28226 Human MDD	c 195	15.2	72.4	104932	14	AEB96542	Aeb96542 Human STA
c 123	15.4	73.3	3199	10	ADA53107	Ada53107 Human cod	c 196	15.2	72.4	110000	2	AAT42063	Aat42063 08
c 124	15.4	73.3	3457	10	ADB62844	Adb62844 Human CDN	c 197	15.2	72.4	110000	2	AAT42063	Aat42063 09
c 125	15.2	72.4	100	9	AA157742	Aa157742 Human N-r	c 198	15.2	72.4	110000	8	ABA90521	Ab90521 08
c 126	15.2	72.4	415	6	ABN60770	Abn60770 Human can	c 199	15.2	72.4	119966	13	ADT05647	Adt05647 Haemophil
c 127	15.2	72.4	434	12	ADK15432	Adk15432 Human IL-	c 200	15.2	72.4	119966	13	ADT05647	Adt05647 Haemophil
c 128	15.2	72.4	487	8	ABZ51213	Abz51213 Aspergill	c 201	14.8	70.5	447	10	ABZ39588	Abz39588 Nicotiana
c 129	15.2	72.4	527	12	ADQ62727	Adq62727 Human int	c 202	14.8	70.5	447	10	ABZ39588	Abz39588 N. gonorr
c 130	15.2	72.4	538	12	ADQ62734	Adq62734 Human int	c 203	14.8	70.5	447	10	ABZ41202	Abz41202 N. gonorr
c 131	15.2	72.4	630	14	ABE11170	Aeal1170 Enterohem	c 204	14.8	70.5	492	11	ACJ33609	Acj33609 Rice abio
c 132	15.2	72.4	630	14	ABE11170	Aeal1170 Enterohem	c 205	14.8	70.5	725	6	ABQ40750	Abq40750 Oligonuc1
c 133	15.2	72.4	642	11	ACH99412	Ach99412 Klebsiell	c 206	14.8	70.5	725	6	ABQ40751	Abq40751 Oligonuc1
c 134	15.2	72.4	666	3	AAF13826	Aaf13826 Aspergill	c 207	14.8	70.5	760	6	ABQ18990	Abq18990 Oligonuc1
c 135	15.2	72.4	666	13	ADU57867	Adu57867 Aspergill	c 208	14.8	70.5	760	6	ABQ18991	Abq18991 Oligonuc1
c 136	15.2	72.4	666	13	ADU57867	Adu57867 Aspergill	c 209	14.8	70.5	760	6	ABQ18991	Abq18991 Oligonuc1
c 137	15.2	72.4	731	12	ADK15429	Adk15429 Human IL-	c 210	14.8	70.5	924	10	ACF69314	Acf69314 Photorhab
c 138	15.2	72.4	731	12	ADQ62726	Adq62726 Human int	c 211	14.8	70.5	1021	14	AEB66936	Aeb66936 Rice geno
c 139	15.2	72.4	777	12	ADQ62732	Adq62732 Human int	c 212	14.8	70.5	1546	4	AAS59773	Aas59773 Propionib
c 140	15.2	72.4	810	13	ADS61357	Ad61357 Bacterial	c 213	14.8	70.5	1546	8	ACF64702	Acf64702 Propionib
c 141	15.2	72.4	834	8	ACA53626	Ac53626 Prokaryot	c 214	14.8	70.5	1698	13	ADT44975	Adt44975 Bacterial
c 142	15.2	72.4	870	13	ADS61559	Ad61559 Bacterial	c 215	14.8	70.5	1710	2	AAV40751	Aav40751 C. felis
c 143	15.2	72.4	903	13	ADS49807	Ad49807 Bacterial	c 216	14.8	70.5	1710	2	AAV40751	Aav40751 C. felis
c 144	15.2	72.4	903	13	ADS55320	Ad55320 Bacterial	c 217	14.8	70.5	1710	4	AAD21171	Aad21171 Ctenoceph
c 145	15.2	72.4	940	3	AAAF34839	Aaa34839 Human ade	c 218	14.8	70.5	1710	4	AAD21171	Aad21171 Ctenoceph
c 146	15.2	72.4	940	3	AAF20961	Aaf20961 Human low	c 219	14.8	70.5	1755	13	ADS56497	Ads56497 Bacterial
c 147	15.2	72.4	940	10	ABZ96655	Abz96655 Human nuc	c 220	14.8	70.5	1785	2	AAV40752	Aav40752 C. felis
c 148	15.2	72.4	940	11	ABD20505	Abd20505 Human pul	c 221	14.8	70.5	1785	2	AAV40753	Aav40753 C. felis
c 149	15.2	72.4	1053	11	ACH96134	Ach96134 Klebsiell	c 222	14.8	70.5	1788	2	AAV40747	Aav40747 C. felis
c 150	15.2	72.4	1219	12	ADQ08745	Adq08745 Ciona int	c 223	14.8	70.5	1788	2	AAV40748	Aav40748 C. felis
c 151	15.2	72.4	1630	4	ABL17851	Ab117851 Drosophil	c 224	14.8	70.5	1841	10	ABT13451	Abt13451 DNA encod
c 152	15.2	72.4	1656	6	ABZ78288	Abz78288 A. niger	c 225	14.8	70.5	1914	10	ABD00416	Abd00416 Klebsiell
c 153	15.2	72.4	2000	8	ADA73209	Ada73209 Rice gene	c 226	14.8	70.5	2030	14	ADZ75894	Adz75894 Ebola vir
c 154	15.2	72.4	2624	2	AAQ54846	Aaq54846 Sequence	c 227	14.8	70.5	2039	10	ABT13455	Abt13455 DNA encod
c 155	15.2	72.4	2624	3	AAZ92177	Aaz92177 N-acetyl	c 228	14.8	70.5	2087	11	ACN44177	Acn44177 Mouse MRN
c 156	15.2	72.4	2722	12	ADQ67239	Adq67239 Novel hum	c 229	14.8	70.5	2172	4	AAD04041	Aad04041 Ebola vir
c 157	15.2	72.4	2820	12	ADL02793	Adl02793 DNA encod	c 230	14.8	70.5	2224	3	AAZ51038	Aaz51038 Ebola vir
c 158	15.2	72.4	2988	14	ADV43003	Adv43003 Human psy	c 231	14.8	70.5	2298	3	AAZ87189	Aaz87189 Ebola vir
c 159	15.2	72.4	3144	10	ADL13821	Adl13821 Osteoarth	c 232	14.8	70.5	2298	4	AAF76953	Aaf76953 Ebola vir
c 160	15.2	72.4	3144	13	ADQ89893	Adq89893 Antagonis	c 233	14.8	70.5	2298	12	ADL27460	Adl27460 Nucleotid
c 161	15.2	72.4	3144	14	ADQ42553	Adv42553 Human psy	c 234	14.8	70.5	2298	14	ADY62752	Ady62752 Ebola gly
c 162	15.2	72.4	3356	6	ABZ78231	Abz78231 A. niger	c 235	14.8	70.5	2658	8	ADA69662	Ada69662 Rice gene
c 163	15.2	72.4	3336	13	ACN41854	Acn41854 Human dia	c 236	14.8	70.5	2658	12	ADJ39547	Adj39547 Plant CDN
c 164	15.2	72.4	3404	9	ACD19081	Acd19081 E. coli 0	c 237	14.8	70.5	2692	4	ABL18825	Ab118825 Drosophil
c 165	15.2	72.4	3411	13	ACN41853	Acn41853 Human dia	c 238	14.8	70.5	2736	11	ABD00080	Abd00080 Klebsiell

c 239	14.8	70.5	2801	2	AAV40749	Aav40749 C. felis	312	14.6	69.5	700	14	AD594839	Adz94839 Aspergill
c 240	14.8	70.5	2801	2	AAV40750	Aav40750 C. felis	c 313	14.6	69.5	708	6	ADK62997	ADK62997 Rat seque
c 241	14.8	70.5	2801	4	AD211172	Ad211172 Ctenoceph	c 314	14.6	69.5	843	13	ADT43230	Adt43230 Bacterial
c 242	14.8	70.5	2832	13	ADR84702	Adr84702 Aspergill	c 315	14.6	69.5	854	5	AA578369	AA578369 DNA encod
c 243	14.8	70.5	2836	2	AAV40745	Aav40745 C. felis	c 316	14.6	69.5	871	12	ADM67038	Adm67038 Murine ad
c 244	14.8	70.5	2836	2	AAV40744	Aav40744 C. felis	c 317	14.6	69.5	908	2	AAx07168	Aax07168 Corn dihy
c 245	14.8	70.5	2836	4	AD221170	Ad221170 Ctenoceph	c 318	14.6	69.5	924	5	AA587126	AA587126 DNA encod
c 246	14.8	70.5	3170	4	ABL16228	Ab16228 Drosophil	c 319	14.6	69.5	958	13	ADX33815	Adx33815 Plant ful
c 247	14.8	70.5	3663	4	ABL17534	Ab17534 Drosophil	c 320	14.6	69.5	973	13	ADX59942	Adx59942 Plant ful
c 248	14.8	70.5	4802	12	ADO00892	Ado00892 Fruit fly	c 321	14.6	69.5	996	5	AA587322	AA587322 DNA encod
c 249	14.8	70.5	4802	12	ADO07698	Ado07698 Fly polyn	c 322	14.6	69.5	1005	13	ADX59548	Adx59548 Plant ful
c 250	14.8	70.5	5110	4	ABL16221	Ab16221 Drosophil	c 323	14.6	69.5	1055	13	ADX61337	Adx61337 Rat Gil a
c 251	14.8	70.5	5651	5	AAI66195	Aai66195 Human FSH	c 324	14.6	69.5	1083	12	ADN06149	Adn06149 Rat Gil-H
c 252	14.8	70.5	5651	6	ABK40237	Abk40237 DNA encod	c 325	14.6	69.5	1083	12	ADN06145	Adn06145 Rat Gil-H
c 253	14.8	70.5	6051	4	ABL18824	Ab18824 Drosophil	c 326	14.6	69.5	1083	12	ADN06143	Adn06143 Rat Gil-H
c 254	14.8	70.5	6186	5	AAI66194	Aai66194 Human FSH	c 327	14.6	69.5	1083	12	ADN06147	Adn06147 Rat Gil-H
c 255	14.8	70.5	6186	6	ABK40236	Abk40236 DNA encod	c 328	14.6	69.5	1098	11	ACH97555	Ach97555 Klebsiell
c 256	14.8	70.5	6213	5	AAI66196	Aai66196 Human FSH	c 329	14.6	69.5	1109	13	ADX62048	Adx62048 Plant ful
c 257	14.8	70.5	6213	6	ABK40238	Abk40238 DNA encod	c 330	14.6	69.5	1135	2	AAV74823	AAV74823 staphyloc
c 258	14.8	70.5	6467	10	ACC71530	Acc71530 VRC6052 (	c 331	14.6	69.5	1136	13	ADX33864	Adx33864 Plant ful
c 259	14.8	70.5	6561	10	ACC71524	Acc71524 VRC6003 (	c 332	14.6	69.5	1154	13	ADX48097	Adx48097 Plant ful
c 260	14.8	70.5	6624	10	ACC71523	Acc71523 VRC6002 (	c 333	14.6	69.5	1260	12	ADP29067	Adp29067 Human sec
c 261	14.8	70.5	6887	10	ACC71526	Acc71526 VRC6005 (	c 334	14.6	69.5	1263	11	ACH99572	Ach99572 Klebsiell
c 262	14.8	70.5	6914	10	ACC71529	Acc71529 VRC6008 (	c 335	14.6	69.5	1278	13	ADX32582	Adx32582 Plant ful
c 263	14.8	70.5	7044	10	ACC71527	Acc71527 VRC6006 (	c 336	14.6	69.5	1335	5	AA566746	AA566746 DNA encod
c 264	14.8	70.5	7154	10	ACC71521	Acc71521 VRC6000 (	c 337	14.6	69.5	1344	13	AD595822	Ad595822 Bacterial
c 265	14.8	70.5	7188	10	ACC71522	Acc71522 VRC6001 (	c 338	14.6	69.5	1344	13	AD598021	Ad598021 Bacterial
c 266	14.8	70.5	7272	2	AA59393	Aax59393 plasmid p	c 339	14.6	69.5	1394	8	ACC50989	Acc50989 Human bla
c 267	14.8	70.5	7272	2	AA59398	Aax89798 DNA of pv	c 340	14.6	69.5	1398	4	ABL29997	Ab129997 Drosophil
c 268	14.8	70.5	7285	2	AA59392	Aax59392 Plasmid p	c 341	14.6	69.5	1458	5	AA587131	AA587131 DNA encod
c 269	14.8	70.5	7285	2	AA59397	Aax89797 DNA of pv	c 342	14.6	69.5	1474	3	AA587330	AA587330 DNA encod
c 270	14.8	70.5	7762	4	ABL16220	Ab16220 Drosophil	c 343	14.6	69.5	1488	5	AA587330	AA587330 DNA encod
c 271	14.8	70.5	8199	10	ACC71549	Acc71549 VRC6604 (	c 344	14.6	69.5	1512	13	ADX46170	Adx46170 Plant ful
c 272	14.8	70.5	8439	10	ACC71548	Acc71548 VRC6603 (	c 345	14.6	69.5	1563	13	AD595850	Ad595850 Bacterial
c 273	14.8	70.5	9106	12	ADR85419	Adf85419 Ebola vir	c 346	14.6	69.5	1637	14	AE326965	Aeb326965 Pinus rad
c 274	14.8	70.5	9263	4	ABL15172	Ab15172 Drosophil	c 347	14.6	69.5	1650	10	AD556333	Ad556333 Human gen
c 275	14.8	70.5	10169	2	AAQ53522	Aaq53522 Cellulose	c 348	14.6	69.5	1653	4	ABL25689	Ab125689 Drosophil
c 276	14.8	70.5	10783	2	AAV52831	Aav52831 Acetobact	c 349	14.6	69.5	1653	4	ABL25689	Ab125689 Drosophil
c 277	14.8	70.5	16836	2	AAV52831	Aav52831 Acetobact	c 350	14.6	69.5	1695	13	ADX33725	Adx33725 Plant ful
c 278	14.8	70.5	18959	13	ADMA8337	Adm48337 Zaire ebo	c 351	14.6	69.5	1714	12	ADO42284	Ado42284 Human NOV
c 279	14.8	70.5	18959	13	ADMA8364	Adm48364 Zaire ebo	c 352	14.6	69.5	1745	6	ADJ33481	Adj33481 Human dru
c 280	14.8	70.5	18959	13	ADMA8335	Adm48335 Zaire ebo	c 353	14.6	69.5	1780	5	AA587332	AA587332 DNA encod
c 281	14.8	70.5	40152	4	ABL17408	Ab17408 Drosophil	c 354	14.6	69.5	1780	13	ADO84647	Ado84647 Plant ful
c 282	14.8	70.5	62231	11	ACNA44176	Acn44176 Mouse gen	c 355	14.6	69.5	1827	8	ACF74951	Acf74951 Staphyloc
c 283	14.8	70.5	100779	10	ACF65386	6 Continuation (7 of	c 356	14.6	69.5	1846	13	ADR23157	Adr23157 Smooth pi
c 284	14.8	70.5	110000	10	ACF67367	22 Continuation (23 of	c 357	14.6	69.5	1869	5	AA589822	AA589822 DNA encod
c 285	14.8	70.5	110000	11	ACNA44150	2 Continuation (3 of	c 358	14.6	69.5	1869	5	AA572441	AA572441 DNA encod
c 286	14.6	69.5	100	8	ACD69326	Adc69326 E. coli K	c 359	14.6	69.5	1870	7	ADRI9689	Adri9689 Human dru
c 287	14.6	69.5	100	8	ACD69325	Adc69325 E. coli K	c 360	14.6	69.5	1884	9	ADA29504	Ada29504 DNA encod
c 288	14.6	69.5	100	8	ACD69327	Adc69327 E. coli K	c 361	14.6	69.5	1894	2	AAT93795	Aat93795 Class II
c 289	14.6	69.5	184	6	AB199439	Abi99439 Mouse isc	c 362	14.6	69.5	1894	2	AAT77328	Aat77328 Class II
c 290	14.6	69.5	184	12	ADM67127	Adm67127 Murine ad	c 363	14.6	69.5	1894	2	AAV58020	AAV58020 Synchocy
c 291	14.6	69.5	184	12	ADM66916	Adm66916 Murine ad	c 364	14.6	69.5	1894	4	AAO09781	AAO09781 Synchocy
c 292	14.6	69.5	224	3	AA581855	Aac18555 Human sec	c 365	14.6	69.5	1894	10	AAO60617	AAO60617 Synchocy
c 293	14.6	69.5	290	5	AA593748	AA593748 DNA encod	c 366	14.6	69.5	1914	5	AA573590	AA573590 DNA encod
c 294	14.6	69.5	290	5	AA587321	AA587321 DNA encod	c 367	14.6	69.5	1930	13	ADR23159	Adr23159 Smooth pi
c 295	14.6	69.5	390	13	ADT51485	Adt51485 E. coli r	c 368	14.6	69.5	2000	8	ADA72451	Ada72451 Rice gene
c 296	14.6	69.5	413	8	ABX39949	Abx39949 Bovine ES	c 369	14.6	69.5	2000	11	ACL36182	ACL36182 Rice stre
c 297	14.6	69.5	466	3	AA574862	Aac74862 Human ORF	c 370	14.6	69.5	2000	11	ACL37476	ACL37476 Rice stre
c 298	14.6	69.5	514	6	ABZ08444	Abz08444 Human leu	c 371	14.6	69.5	2000	12	ADJ41043	Adj41043 Plant CDN
c 299	14.6	69.5	516	8	ACA30640	Aca30640 Prokaryot	c 372	14.6	69.5	2019	13	ADV34926	Adv34926 Rat CDNA
c 300	14.6	69.5	539	8	ABZ53309	Abz53309 Aspergill	c 373	14.6	69.5	2025	5	ABX09882	Abx09882 N. lactam
c 301	14.6	69.5	597	4	AAH84601	Aah84601 E. coli g	c 374	14.6	69.5	2133	8	AB198036	Abi98036 TSHR-Ga-a
c 302	14.6	69.5	597	8	ACA18761	Aca18761 Prokaryot	c 375	14.6	69.5	2133	8	ACC70137	Acc70137 Nucleotid
c 303	14.6	69.5	610	6	ABT09511	Abt09511 Phase-1 R	c 376	14.6	69.5	2133	13	ADU24237	Adu24237 DNA encod
c 304	14.6	69.5	610	12	ADH22827	Adh22827 Partial D	c 377	14.6	69.5	2148	8	ABX09883	Abx09883 N. mening
c 305	14.6	69.5	619	5	AA593756	AA593756 DNA encod	c 378	14.6	69.5	2234	5	AA587132	AA587132 DNA encod
c 306	14.6	69.5	674	6	ABN75366	Abn75366 Human ORF	c 379	14.6	69.5	2240	13	ADT05252	Adt05252 Haemophil
c 307	14.6	69.5	675	10	ADC08877	Adc08877 Corn DNA	c 380	14.6	69.5	2379	10	ADD45509	Add45509 Human gen
c 308	14.6	69.5	678	13	ADR88787	Adr88787 Nucleotid	c 381	14.6	69.5	2414	12	ADF70702	Adf70702 Acetic-ac
c 309	14.6	69.5	697	5	AA590474	AA590474 DNA encod	c 382	14.6	69.5	2432	2	AAQ81748	Aaq81748 Mouse syn
c 310	14.6	69.5	700	3	AAF12795	AAF12795 Aspergill	c 383	14.6	69.5	2607	5	AA587125	AA587125 DNA encod
c 311	14.6	69.5	700	13	ADU56836	Adu56836 Aspergill	c 384	14.6	69.5	2968	5	AA587134	AA587134 DNA encod

385	14.6	69.5	2969	2	AAx84349	AAx84349 Stealth v	c 458	14.4	68.6	6149	6	ABN90315	ABN90315 Human liv
c 386	14.6	69.5	3054	12	ADJ75927	ADJ75927 Marker ge	c 459	14.4	68.6	6149	6	ABN90316	ABN90316 Human liv
c 387	14.6	69.5	3054	14	ADJ26107	ADJ26107 Novel cel	c 460	14.4	68.6	6149	11	ADJ15229	ADJ15229 Human liv
c 388	14.6	69.5	3072	4	ABL27414	ABL27414 Drosophil	c 461	14.4	68.6	6149	11	ADJ15228	ADJ15228 Human liv
389	14.6	69.5	3078	5	AAx93759	AAx93759 DNA encod	c 462	14.4	68.6	13531	4	ABL07252	ABL07252 Drosophil
390	14.6	69.5	3132	3	AAx79522	AAx79522 Rat p38a1	c 463	14.4	68.6	20268	4	AAK90183	AAK90183 Human dig
391	14.6	69.5	3132	8	ABX78121	ABX78121 Rat p38-a	c 464	14.4	68.6	20268	4	AAI57636	AAI57636 Human col
392	14.6	69.5	3132	10	ADB58557	ADB58557 Toxicity-	c 465	14.4	68.6	20268	6	ABs99813	ABs99813 Genomic D
393	14.6	69.5	3132	10	ADB53174	ADB53174 Primary r	c 466	14.4	68.6	20268	10	ABb92966	ABb92966 Human col
394	14.6	69.5	3132	10	ABT42156	ABT42156 Toxicity	c 467	14.4	68.6	46852	8	ABQ76676	ABQ76676 Androgen
395	14.6	69.5	3132	11	ADM34257	ADM34257 Rat p38a1	c 468	14.4	68.6	149158	12	ADP74211	ADP74211 Equine he
396	14.6	69.5	3132	13	ADs97163	ADs97163 Rat p38 M	c 469	14.4	68.6	149261	12	ADP74212	ADP74212 Equine he
397	14.6	69.5	3231	13	ADT46594	ADt46594 Bacterial	c 470	14.4	68.6	150071	12	ADP74216	ADP74216 Equine he
398	14.6	69.5	3243	5	AAx87325	AAx87325 DNA encod	c 471	14.4	68.6	150223	12	ADP74201	ADP74201 Equine he
399	14.6	69.5	3243	10	ADF53954	ADF53954 Human con	c 472	14.4	68.6	218336	8	ABQ76678	ABQ76678 Androgen
c 400	14.6	69.5	3471	14	ACF11922	ACf11922 M. xanthu	c 473	14.2	67.6	28	3	AAZ54648	AAZ54648 Neisseria
401	14.6	69.5	3629	4	ABL29996	ABL29996 Drosophil	c 474	14.2	67.6	60	13	ADS53160	ADS53160 Eucalyptu
402	14.6	69.5	3795	5	AAx87129	AAx87129 DNA encod	c 475	14.2	67.6	258	2	AAT67771	AAT67771 H. pylori
403	14.6	69.5	3795	12	ADM87462	ADM87462 Human EST	c 476	14.2	67.6	258	2	AAT77451	AAT77451 H. pylori
404	14.6	69.5	3797	5	AAx87329	AAx87329 DNA encod	c 477	14.2	67.6	391	4	AAI19551	AAI19551 Human bre
405	14.6	69.5	3887	5	ABL25688	ABL25688 Drosophil	c 478	14.2	67.6	417	4	AAI181838	AAI181838 Human pol
c 406	14.6	69.5	3916	4	ABLI19890	ABLI19890 Drosophil	c 479	14.2	67.6	446	14	ACL61636	ACL61636 Human col
407	14.6	69.5	4632	5	AAx87326	AAx87326 DNA encod	c 480	14.2	67.6	450	9	ACH39195	ACH39195 Human foe
408	14.6	69.5	5157	12	ADI26350	ADI26350 F. gramin	c 481	14.2	67.6	455	8	ABZ54299	ABZ54299 Aspergill
409	14.6	69.5	5888	12	ADI26349	ADI26349 F. gramin	c 482	14.2	67.6	460	4	AAH34438	AAH34438 Human col
410	14.6	69.5	6219	12	ADI26353	ADI26353 F. gramin	c 483	14.2	67.6	488	3	AAF08801	AAF08801 Fusarium
c 411	14.6	69.5	6608	12	ADI26352	ADI26352 F. gramin	c 484	14.2	67.6	488	13	ADU52842	ADU52842 Fusarium
c 412	14.6	69.5	7119	13	ADR84468	ADR84468 Aspergill	c 485	14.2	67.6	488	14	ADZ90845	ADZ90845 Fusarium
c 413	14.6	69.5	7186	14	ACL64416	ACL64416 M. xanthu	c 486	14.2	67.6	498	9	ACH32773	ACH32773 Human end
c 414	14.6	69.5	7339	12	ADI26351	ADI26351 F. gramin	c 487	14.2	67.6	501	9	ACH32773	ACH32773 Human end
415	14.6	69.5	9711	4	AAx23486	AAx23486 Infectiou	c 488	14.2	67.6	527	2	AAQ31995	AAQ31995 5' flanki
416	14.6	69.5	9711	4	AAx86937	AAx86937 Nucleotid	c 489	14.2	67.6	555	13	ADX63822	ADX63822 Plant ful
417	14.6	69.5	9711	5	AAx86644	AAx86644 Nucleotid	c 490	14.2	67.6	611	12	ADN13703	ADN13703 Human pro
c 418	14.6	69.5	23732	4	ABL30302	ABL30302 Drosophil	c 491	14.2	67.6	663	8	ACA39248	ACA39248 Prokaryot
c 419	14.6	69.5	26698	2	AAT08126	AAT08126 Mouse syn	c 492	14.2	67.6	674	10	ACF67270	ACF67270 Phototrab
c 420	14.6	69.5	26700	2	AAQ67902	AAQ67902 Syndecan	c 493	14.2	67.6	678	9	ADA28794	ADA28794 DNA encod
c 421	14.6	69.5	26700	2	AAV15946	AAV15946 Mouse syn	c 494	14.2	67.6	681	11	ACN89271	ACN89271 Breast ca
c 422	14.6	69.5	26700	2	AAV81283	AAV81283 Mouse syn	c 495	14.2	67.6	681	12	ADL04181	ADL04181 DNA encod
c 423	14.6	69.5	26700	8	ACA60750	ACA60750 Mouse cel	c 496	14.2	67.6	687	6	ABX66497	ABX66497 Helicobac
c 424	14.6	69.5	28275	3	AAx81501	AAx81501 N. mening	c 497	14.2	67.6	741	6	ABK74143	ABK74143 Bacillus
c 425	14.6	69.5	72750	3	AAx81468	AAx81468 N. mening	c 498	14.2	67.6	764	4	AAI24651	AAI24651 Human bre
426	14.6	69.5	110000	2	AAZ01425	AAZ01425 Continuation (6 of	c 499	14.2	67.6	780	10	ADB67956	ADB67956 Human lun
427	14.6	69.5	110000	2	AAx91990	AAx91990 Continuation (8 of	c 500	14.2	67.6	780	12	ADN13730	ADN13730 Human pro
428	14.6	69.5	110000	2	AAx81490	AAx81490 Continuation (3 of							
429	14.6	69.5	110000	3	AAx81489	AAx81489 N. mening							
c 430	14.6	69.5	125534	11	ACN44966	ACN44966 Human gen							
c 431	14.6	69.5	138251	13	ADQ80324	ADQ80324 Human PAC							
c 432	14.6	69.5	138337	13	ABD33163	ABD33163 Human can							
c 433	14.6	69.5	146547	8	ABZ80817	ABZ80817 Human pho							
c 434	14.6	69.5	219352	13	ABD33098	ABD33098 Murine ca							
c 435	14.6	69.5	235962	14	ADN12926	ADN12926 Murine ca							
436	14.6	69.5	264965	12	ADN16203	ADN16203 Human sul							
437	14.6	69.5	268685	6	ABs56563	ABs56563 Human SUL							
438	14.6	69.5	349980	3	AAx21610	AAx21610 Neisseria							
439	14.6	69.5	349980	3	AAx21611	AAx21611 Neisseria							
440	14.6	69.5	349980	3	AAx21544	AAx21544 Neisseria							
441	14.6	68.6	20	10	ABZ25482	ABZ25482 Rice acet							
c 442	14.4	68.6	300	2	AAZ12565	AAZ12565 Human gen							
c 443	14.4	68.6	597	13	ADR64579	ADR64579 Cotton cD							
c 444	14.4	68.6	751	2	AAZ15561	AAZ15561 Human gen							
445	14.4	68.6	1596	14	ADM38750	ADM38750 Fatty aci							
c 446	14.4	68.6	1723	14	ABE66287	ABE66287 Rice geno							
c 447	14.4	68.6	1745	6	ABK27912	ABK27912 Rice gene							
c 448	14.4	68.6	2000	8	ADA72667	ADA72667 Rice gene							
449	14.4	68.6	2022	13	ADT02197	ADT02197 Plant cdn							
c 450	14.4	68.6	2133	13	ADU07863	ADU07863 DNA seque							
451	14.4	68.6	2776	4	ABL17073	ABL17073 Drosophil							
c 452	14.4	68.6	3584	4	ABL07253	ABL07253 Drosophil							
c 453	14.4	68.6	4776	4	ABL17072	ABL17072 Drosophil							
c 454	14.4	68.6	6149	4	AAK90925	AAK90925 Human dig							
c 455	14.4	68.6	6149	4	AAK90926	AAK90926 Human dig							
c 456	14.4	68.6	6149	5	AAx31961	AAx31961 Human liv							
c 457	14.4	68.6	6149	5	AAx31960	AAx31960 Human liv							

ALIGNMENTS

RESULT 1

ADFS0207
ID ADF50207 standard; DNA; 1524 BP.

XX AC ADF50207;

XX 12-FEB-2004 (first entry)

DE Wheat Teal AHAS ALS3 ORF, SEQ ID 7.

XX Wheat; plant; herbicide resistance; imidazolinone; IMI; mutant;
XX acetohydroxyacid synthase; AHAS; weed control; ds.

OS Triticum aestivum.

XX WO2003014357-A1.

XX 20-FEB-2003.

XX 10-JUL-2002; 2002WO-CA001051.

XX 09-AUG-2001; 2001US-0311282P.

XX (UySA-) UNIV SASKATCHEWAN.

GenCore version 5.1.7

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2594.31 Seconds
(without alignments)
378.725 Million cell updates/sec

Title: US-10-805-973-1

Perfect score: 21

Sequence: 1 ccgcgcgaatgctatccag 21

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST.*
1: gb_est1.*
2: gb_est2.*
3: gb_est3.*
4: gb_hic.*
5: gb_est4.*
6: gb_est5.*
7: gb_est6.*
8: gb_est7.*
9: gb_gss1.*
10: gb_gss2.*
11: gb_gss3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	336	2	BE216970 EST0513 T
2	21	100.0	342	2	BE405178
3	21	100.0	452	3	BJ211019
4	21	100.0	479	1	AL818714
5	21	100.0	514	2	BG606342
6	21	100.0	542	2	BE402272
7	21	100.0	542	5	BQ607881
8	21	100.0	544	2	BE637311
9	21	100.0	583	3	BI751798
10	21	100.0	635	7	CV064973
11	21	100.0	642	3	BJ290340
12	21	100.0	657	5	BQ839048
13	21	100.0	680	6	CD923248
14	21	100.0	697	1	AM447953
15	21	100.0	697	5	BQ605618
16	21	100.0	737	5	BQ099465
17	21	100.0	860	8	CV763823
18	21	100.0	877	7	CK164419
19	21	100.0	1121	7	CK166070
20	21	100.0	1143	7	CK166817
21	21	100.0	1149	7	CK167517
22	21	100.0	1198	7	CK168204

AL815430	AL815430	382	1	AL815430	95.2	20	23
BG262730	WHE0940	437	2	BG262730	95.2	20	24
BP749309	BP749309	394	3	BP749309	92.4	19.4	25
BP749503	BP749503	394	3	BP749503	92.4	19.4	26
CZ100490	OM_BA010	582	10	CZ100490	92.4	19.4	27
CZ146518	OA_BBA004	692	10	CZ146518	92.4	19.4	28
CZ134481	OA_BBA002	707	10	CZ134481	92.4	19.4	29
CZ134246	OA_BBA002	897	10	CZ134246	92.4	19.4	30
CK167307	FGAS05163	1160	7	CK167307	92.4	19.4	31
CL579765	OB_BA003	342	10	CL579765	84.8	17.8	32
CL745747	OR_BBA008	387	10	CL745747	84.8	17.8	33
CA002221	HS06N21r	394	5	CA002221	84.8	17.8	34
BU974149	HB27A17r	448	5	BU974149	84.8	17.8	35
AU090161	AU090161	458	1	AU090161	84.8	17.8	36
AU090120	AU090120	463	1	AU090120	84.8	17.8	37
BE194893	HVSMEH008	482	2	BE194893	84.8	17.8	38
BP258592	HVSNEF001	580	2	BP258592	84.8	17.8	39
AV9332575	AV932575	583	1	AV9332575	84.8	17.8	40
BI946606	HVSMEL000	599	3	BI946606	84.8	17.8	41
CL720070	OR_BBA004	625	1	CL720070	84.8	17.8	42
AV933951	AV933951	648	6	AV933951	84.8	17.8	43
CB883149	HQ01F18w	714	10	CB883149	84.8	17.8	44
CL838248	OR_CB8006	727	10	CL838248	84.8	17.8	45
CL748539	OR_BBA011	813	10	CL748539	84.8	17.8	46
AG872950	Oryza sat	820	10	AG872950	84.8	17.8	47
CZ694312	OC_BA000	879	6	CZ694312	84.8	17.8	48
CB626705	OSiTEb01C	1147	7	CB626705	84.8	17.8	49
CK166638	FGAS05080	1149	7	CK166638	84.8	17.8	50
CK167615	FGAS05201	1935	10	CK167615	84.8	17.8	51
CL967368	OBIFCC039	890	11	CL967368	84.8	17.8	52
AL420835	T3 end of	285	2	AL420835	80.0	16.8	53
BG942465	ax25e08.x	450	10	BG942465	80.0	16.8	54
CZ063538	OM_BA006	576	7	CZ063538	80.0	16.8	55
CO144864	EST81917	693	3	CO144864	80.0	16.8	56
BJ576529	BJ576529	719	3	BJ576529	80.0	16.8	57
BJ568061	BJ568061	775	3	BJ568061	80.0	16.8	58
CK354936	AGENCOURT	1100	6	CK354936	80.0	16.8	59
CA492544	AGENCOURT	606	3	CA492544	78.1	16.4	60
BP953985	BP953985	613	2	BP953985	78.1	16.4	61
BE202961	EST402993	946	2	BE202961	78.1	16.4	62
BF697997	602130092	1008	9	BF697997	78.1	16.4	63
CC891497	ZMMBHC051	313	7	CC891497	77.1	16.2	64
BG995858	PMO-HT091	319	7	BG995858	77.1	16.2	65
BH630438	1007088E0	355	5	BH630438	77.1	16.2	66
BN115578	EC2CAA43A	384	1	BN115578	77.1	16.2	67
AW378699	PM2-HT022	401	6	AW378699	77.1	16.2	68
BE951735	UI-M-CCO-	201	2	BE951735	77.1	16.2	69
BM066807	KS07018E0	215	3	BM066807	77.1	16.2	70
BG997613	PMO-HT091	247	2	BG997613	77.1	16.2	71
AL921498	AL921498	292	1	AL921498	77.1	16.2	72
NO86858	EC2BBA27D	313	7	NO86858	77.1	16.2	73
CN116061	EC3CAA43D	319	7	CN116061	77.1	16.2	74
CK085295	OS8M01005	345	7	CK085295	77.1	16.2	75
BX725082	BX725082	355	5	BX725082	77.1	16.2	76
AL594975	AL594975	384	1	AL594975	77.1	16.2	77
CO906971	BJ0201180	388	7	CO906971	77.1	16.2	78
CL740780	OR_BBA007	411	6	CL740780	77.1	16.2	79
CF041801	QJ30b11	401	10	CF041801	77.1	16.2	80
CN116743	EC2CAA45A	424	7	CN116743	77.1	16.2	81
NO86859	EC2BBA27D	434	7	NO86859	77.1	16.2	82
CK048867	45749F81C	442	7	CK048867	77.1	16.2	83
CN117606	EC2CAA4AE	442	7	CN117606	77.1	16.2	84
BG158251	EM1_10_D0	452	2	BG158251	77.1	16.2	85
AW932273	EST358116	461	1	AW932273	77.1	16.2	86
CX774140	UI-EH-HG1	469	8	CX774140	77.1	16.2	87
BP898787	BP898787	470	3	BP898787	77.1	16.2	88
AW441537	EST310933	477	1	AW441537	77.1	16.2	89
BP901388	BP901388	479	3	BP901388	77.1	16.2	90
AQ227033	HS_2013_A	481	9	AQ227033	77.1	16.2	91
BP897059	BP897059	482	3	BP897059	77.1	16.2	92
AY671039	Homo sapi	482	4	AY671039	77.1	16.2	93
DR406527	mm86C04	491	8	DR406527	77.1	16.2	94
CN116727	EC2CAA45A	493	7	CN116727	77.1	16.2	95

388 15.8 75.2 834 8 CX399180 JGI_XZT36
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 390 15.8 75.2 840 5 BU231017 603947323
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 400 15.8 75.2 1081 5 BU168526 AGENCOURT
 401 15.8 75.2 1092 8 DR740491 FGAS00043
 402 15.8 75.2 1172 2 BF298583 018PBH09
 403 15.8 75.2 1178 7 CK209710 FGAS02148
 404 15.8 75.2 1181 10 AG391974 Mus muscu
 405 15.4 73.3 253 2 BE495714 WHE1282.G
 406 15.4 73.3 350 5 BU018377 QHE18H13
 407 15.4 73.3 354 6 CF193465 16f18j2.f
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 409 15.4 73.3 393 6 CA966376 CCLX05a16
 410 15.4 73.3 423 5 BW842285 BW842285
 411 15.4 73.3 427 7 CN744587 SAL_US025
 412 15.4 73.3 467 10 CW045500 104_282.1
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 420 15.4 73.3 544 7 CK553300 rsw1a0_01
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 422 15.4 73.3 569 3 BP369364 BP369364
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 426 15.4 73.3 620 10 CW193635 104_616.1
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 437 15.4 73.3 708 9 BZ444588 BONS71TF
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 445 15.4 73.3 792 8 W28101 52a7 Human
 446 15.4 73.3 801 8 W28811 52a7 Human
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 462 15.4 73.3 1224 10 AG567738 AG567738 Mus muscu
 463 15.4 73.3 1367 11 DQ045511 DQ045511 Pan trogl
 464 15.4 73.3 1456 10 AG275892 AG275892 Mus muscu
 465 15.4 73.3 1463 10 AG545239 AG545239 Mus muscu
 466 15.4 73.3 1465 3 BM543361 BM543361 AGENCOURT
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 470 15.4 73.3 4146 4 HSM805210 AL833304 Homo sapi-
 471 15.2 72.4 160 7 CK910882 CK910882 e3fngfip.0
 472 15.2 72.4 180 8 U39603 U39603 OSU39603.FD
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 474 15.2 72.4 228 10 CZ626524 CZ626524 OM_Ba016
 475 15.2 72.4 231 1 AW819243 AW819243 CM1-ST028
 476 15.2 72.4 243 8 DR599859 DR599859 EST989887
 477 15.2 72.4 257 3 BQ355529 BQ355529 RC4-HT109
 478 15.2 72.4 279 10 AL938196 AL938196 Arabidops
 479 15.2 72.4 296 1 AV097000 AV097000 AV097000
 480 15.2 72.4 297 8 CX560769 CX560769 ydb45f03.
 481 15.2 72.4 300 6 CD330200 CD330200 StrPu537.
 482 15.2 72.4 304 7 CN118726 CN118726 EC2CAA9AC
 483 15.2 72.4 311 7 CF953246 CF953246 3328Br8ice
 484 15.2 72.4 317 2 BF824474 BF824474 NCST3624
 485 15.2 72.4 322 3 BP948086 BP948086 BP948086
 486 15.2 72.4 323 7 CV722061 CV722061 YBH--06-E
 487 15.2 72.4 340 6 CB639648 CB639648 OSUNEa11H
 488 15.2 72.4 345 10 AG931515 AG931515 Drosophil
 489 15.2 72.4 348 5 BX569253 BX569253 BX569253
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 493 15.2 72.4 354 11 CR499541 CR499541 mtb2-176K
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 496 15.2 72.4 368 1 AJ225486 AJ225486 AJ225486
 497 15.2 72.4 375 7 CN025989 CN025989 UMC-p4c1v
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 499 15.2 72.4 388 1 AU089726 AU089726 AU089726
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ALIGNMENTS

RESULT 1

BE216970/c

LOCUS

DEFINITION

EST0513 Triticum aestivum Lambda Zap Triticum aestivum cDNA clone

JAI 5C.E09.T3.5' similar to Putative acetohydroxyacid synthase,

mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BE216970 336 bp mRNA linear EST 03-JUL-2000
 EST0513 Triticum aestivum Lambda Zap Triticum aestivum cDNA clone
 JAI 5C.E09.T3.5' similar to Putative acetohydroxyacid synthase,
 mRNA sequence.

BE216970.1 GI:8904656

EST.

Triticum aestivum (bread wheat)

Triticum aestivum

Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;

Poaceae; Triticeae; Triticum.

1 (bases 1 to 336)

Anderson, J.M., Williams, C.E. and Goodwin, S.B.

Analysis of an EST database reveals a probable CF2 resistance gene

homolog in wheat

Unpublished (2000)

Contact: Anderson, J.M.

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Fax: 765-496-2926

Email: janderson@purdue.edu

Seq primer: T3

High quality sequence stop: 336.

98	14.8	70.5	9540	2	US-07-689-008-1	Sequence 1, Appli	171	14.2	67.6	3015	3	US-09-067-091-1	Sequence 1, Appli
99	14.8	70.5	16836	3	US-09-147-236-1	Sequence 1, Appli	172	14.2	67.6	3669	3	US-09-949-016-13826	Sequence 3826, Ap
100	14.8	70.5	16836	3	US-09-147-236-10	Sequence 10, Appl	173	14.2	67.6	7948	3	US-09-949-016-17596	Sequence 17596, A
101	14.8	70.5	16836	3	US-09-522-474-1	Sequence 1, Appli	174	14.2	67.6	12797	3	US-09-949-016-15274	Sequence 15274, A
102	14.8	70.5	16836	3	US-09-522-474-10	Sequence 10, Appl	175	14.2	67.6	18436	3	US-08-961-527-87	Sequence 87, Appl
103	14.8	70.5	28229	3	US-09-949-016-12368	Sequence 12368, A	176	14.2	67.6	33778	3	US-09-956-002-19	Sequence 19, Appl
104	14.8	70.5	151088	3	US-09-949-016-16240	Sequence 16240, A	177	14.2	67.6	34078	3	US-09-949-016-17588	Sequence 17588, A
c 105	14.6	69.5	224	3	US-09-513-999C-22630	Sequence 22630, A	178	14.2	67.6	61663	3	US-09-453-702B-62	Sequence 62, Appl
c 106	14.6	69.5	514	3	US-10-131-827-8435	Sequence 8435, Ap	179	14.2	67.6	61663	3	US-10-114-170-62	Sequence 62, Appl
c 107	14.6	69.5	597	3	US-09-711-164-229	Sequence 229, App	c 180	14.2	67.6	66986	3	US-09-596-002-29	Sequence 29, Appl
108	14.6	69.5	700	3	US-09-533-559-5318	Sequence 5318, Ap	181	14.2	67.6	88950	3	US-09-949-016-17150	Sequence 17150, A
109	14.6	69.5	1098	3	US-09-424-978B-1	Sequence 1, Appli	182	14.2	67.6	91772	3	US-09-949-016-15568	Sequence 15568, A
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c 111	14.6	69.5	1135	3	US-08-956-171E-512	Sequence 512, App	184	14.2	67.6	275110	3	US-09-949-016-12706	Sequence 12706, A
c 112	14.6	69.5	1135	3	US-08-781-986A-512	Sequence 512, App	185	14.2	67.6	275110	3	US-09-949-016-16070	Sequence 16070, A
113	14.6	69.5	1263	3	US-09-489-039A-5367	Sequence 5367, Ap	186	14.2	67.6	330416	3	US-09-949-016-16923	Sequence 16923, A
114	14.6	69.5	1625	3	US-09-270-767-649	Sequence 649, App	c 187	14.2	67.6	536165	3	US-09-214-808-1	Sequence 1, Appli
115	14.6	69.5	1625	3	US-09-270-767-15931	Sequence 15931, A	188	14.2	67.6	4403765	3	US-09-103-840A-2	Sequence 2, Appli
c 116	14.6	69.5	1884	3	US-09-328-352-791	Sequence 791, App	189	14.2	67.6	4411529	3	US-09-103-840A-1	Sequence 1, Appli
117	14.6	69.5	1894	2	US-08-476-008-66	Sequence 66, Appl	190	14	66.7	573	3	US-09-248-796A-12545	Sequence 12545, A
118	14.6	69.5	1894	2	US-08-306-063-66	Sequence 66, Appl	c 191	14	66.7	601	3	US-09-949-016-147480	Sequence 147480, A
119	14.6	69.5	1894	2	US-08-833-485-66	Sequence 66, Appl	192	14	66.7	1261	3	US-09-270-767-11754	Sequence 11754, A
120	14.6	69.5	1894	2	US-09-137-440-66	Sequence 66, Appl	193	14	66.7	4491	3	US-08-809-917-25	Sequence 25, Appl
121	14.6	69.5	2133	2	US-09-826-509-588	Sequence 588, App	194	14	66.7	4491	3	US-09-419-371-25	Sequence 25, Appl
c 122	14.6	69.5	2432	2	US-08-078-683A-1	Sequence 1, Appli	195	14	66.7	87470	3	US-09-949-016-15881	Sequence 15881, A
c 123	14.6	69.5	2432	3	US-08-471-970A-1	Sequence 1, Appli	196	13.8	65.7	25	3	US-09-396-196G-69011	Sequence 69011, A
c 124	14.6	69.5	2432	3	US-09-723-677B-1	Sequence 1, Appli	197	13.8	65.7	25	3	US-09-396-196G-69012	Sequence 69012, A
c 125	14.6	69.5	3041	3	US-09-694-777A-20	Sequence 20, Appl	c 198	13.8	65.7	168	3	US-09-902-540-1307	Sequence 1307, Ap
126	14.6	69.5	3132	3	US-09-286-904-45	Sequence 45, Appl	199	13.8	65.7	254	3	US-09-513-999C-24609	Sequence 24609, A
127	14.6	69.5	3132	3	US-09-640-101-45	Sequence 45, Appl	200	13.8	65.7	480	3	US-09-489-039A-5404	Sequence 5404, Ap
c 128	14.6	69.5	3471	3	US-09-902-540-8385	Sequence 8385, Ap	201	13.8	65.7	546	3	US-09-248-796A-1499	Sequence 1499, Ap
c 129	14.6	69.5	7186	3	US-09-902-540-879	Sequence 879, App	c 202	13.8	65.7	546	3	US-09-621-976-16488	Sequence 16488, A
c 130	14.6	69.5	26700	2	US-08-472-217-1	Sequence 1, Appli	203	13.8	65.7	588	3	US-08-998-416-368	Sequence 368, App
c 131	14.6	69.5	26700	2	US-08-488-199-5	Sequence 5, Appli	204	13.8	65.7	601	3	US-09-949-016-55105	Sequence 55105, A
c 132	14.6	69.5	26700	3	US-08-760-534A-1	Sequence 1, Appli	205	13.8	65.7	601	3	US-09-328-352-1856	Sequence 1856, Ap
c 133	14.6	69.5	26700	3	US-09-336-757-1	Sequence 1, Appli	c 206	13.8	65.7	1392	3	US-09-614-221A-576	Sequence 576, App
c 134	14.6	69.5	1230025	3	US-09-198-452A-1	Sequence 1, Appli	c 207	13.8	65.7	1473	3	US-09-248-796A-5209	Sequence 5209, Ap
c 135	14.6	69.5	1230230	3	US-09-438-185A-1	Sequence 1, Appli	208	13.8	65.7	1476	3	US-09-289-377-1	Sequence 1, Appli
c 136	14.4	68.6	601	3	US-09-949-016-197986	Sequence 197986, A	209	13.8	65.7	1802	3	US-09-639-207-2	Sequence 2, Appli
c 137	14.4	68.6	612	3	US-09-621-976-1483	Sequence 1483, Ap	210	13.8	65.7	2239	3	US-08-724-298A-1	Sequence 1, Appli
138	14.4	68.6	1029	3	US-09-270-767-13746	Sequence 13746, A	c 211	13.8	65.7	2346	2	US-09-616-430-1	Sequence 1, Appli
139	14.4	68.6	1225	3	US-09-248-796A-5011	Sequence 5011, Ap	c 212	13.8	65.7	2346	2	US-09-616-430-1	Sequence 1, Appli
140	14.4	68.6	19408	3	US-09-949-016-17350	Sequence 17350, A	213	13.8	65.7	2791	3	US-09-016-434-1263	Sequence 1263, Ap
141	14.4	68.6	65966	3	US-09-949-016-17152	Sequence 17152, A	214	13.8	65.7	2821	3	US-09-221-017B-493	Sequence 493, App
c 142	14.4	68.6	151256	3	US-09-949-016-12674	Sequence 12674, A	215	13.8	65.7	4158	3	US-09-266-225D-17	Sequence 17, Appl
c 143	14.4	68.6	151261	3	US-09-949-016-13242	Sequence 13242, A	216	13.8	65.7	4279	3	US-09-041-886-22	Sequence 22, Appl
c 144	14.2	67.6	488	3	US-09-533-559-1324	Sequence 1324, Ap	c 217	13.8	65.7	4291	2	US-08-417-210A-81	Sequence 81, Appl
c 145	14.2	67.6	601	3	US-09-949-016-154637	Sequence 154637, A	c 218	13.8	65.7	4615	2	US-08-674-351-3	Sequence 3, Appli
c 146	14.2	67.6	601	3	US-09-949-016-179828	Sequence 179828, A	219	13.8	65.7	4763	3	US-09-221-017B-147	Sequence 147, App
c 147	14.2	67.6	601	3	US-09-949-016-206602	Sequence 206602, A	220	13.8	65.7	5476	3	US-09-949-016-13556	Sequence 13556, A
c 148	14.2	67.6	601	3	US-09-949-016-206775	Sequence 206775, A	c 221	13.8	65.7	23219	3	US-09-949-016-13335	Sequence 13335, A
c 149	14.2	67.6	678	3	US-09-328-352-81	Sequence 81, Appl	c 222	13.8	65.7	87567	3	US-09-949-016-15790	Sequence 15790, A
150	14.2	67.6	681	3	US-09-540-236-1867	Sequence 1867, Ap	223	13.8	65.7	107827	3	US-09-949-016-15790	Sequence 15790, A
151	14.2	67.6	788	3	US-09-705-621-39	Sequence 39, Appl	c 224	13.8	65.7	256171	3	US-09-949-016-12822	Sequence 12822, A
c 152	14.2	67.6	948	3	US-09-533-559-693	Sequence 693, App	c 225	13.8	65.7	256176	3	US-09-949-016-15524	Sequence 15524, A
c 153	14.2	67.6	987	3	US-09-949-016-5854	Sequence 5854, Ap	226	13.8	65.7	636591	3	US-09-949-016-11808	Sequence 11808, A
154	14.2	67.6	993	3	US-09-489-039A-4468	Sequence 4468, Ap	227	13.8	65.7	636591	3	US-09-949-016-13388	Sequence 13388, A
155	14.2	67.6	1089	2	US-08-154-915-1	Sequence 1, Appli	c 228	13.8	65.7	4411529	3	US-09-103-840A-2	Sequence 2, Appli
156	14.2	67.6	1089	2	US-08-464-517-37	Sequence 37, Appl	c 229	13.8	65.7	4411529	3	US-09-103-840A-1	Sequence 1, Appli
157	14.2	67.6	1089	2	US-08-246-361A-37	Sequence 37, Appl	230	13.6	64.8	181	3	US-09-509-902A-1	Sequence 1, Appli
158	14.2	67.6	1089	2	US-08-463-772-37	Sequence 37, Appl	231	13.6	64.8	181	3	US-10-024-828-1	Sequence 9, Appli
159	14.2	67.6	1089	6	PCT-US93-09945-1	Sequence 1, Appli	c 232	13.6	64.8	210	3	US-08-777-708C-9	Sequence 113, App
160	14.2	67.6	1092	3	US-09-270-767-12315	Sequence 12315, A	c 233	13.6	64.8	252	3	US-10-021-338A-113	Sequence 504, App
c 161	14.2	67.6	1164	3	US-09-489-039A-2480	Sequence 2480, Ap	234	13.6	64.8	297	3	US-09-313-294A-504	Sequence 116, App
c 162	14.2	67.6	1193	3	US-09-541-941B-27	Sequence 27, Appl	235	13.6	64.8	372	3	US-10-125-258-116	Sequence 1, Appli
c 163	14.2	67.6	1309	3	US-08-362-495-4	Sequence 4, Appli	c 236	13.6	64.8	407	3	US-09-761-466-1	Sequence 1892, Ap
c 164	14.2	67.6	1309	3	US-09-408-508-4	Sequence 4, Appli	c 237	13.6	64.8	407	3	US-09-513-999C-1892	Sequence 15265, A
165	14.2	67.6	1548	3	US-09-543-681A-4108	Sequence 4108, Ap	c 238	13.6	64.8	440	3	US-09-270-767-15265	Sequence 10827, A
166	14.2	67.6	2397	3	US-09-583-110A-443	Sequence 443, App	c 239	13.6	64.8	442	3	US-09-621-976-10827	Sequence 15238, A
167	14.2	67.6	2415	3	US-09-067-091-5	Sequence 5, Appli	c 240	13.6	64.8	452	3	US-09-385-982-350	Sequence 350, App
168	14.2	67.6	2415	3	US-09-107-433-1881	Sequence 1881, Ap	c 241	13.6	64.8	452	3	US-09-270-767-5969	Sequence 5969, Ap
169	14.2	67.6	2690	3	US-09-705-621-37	Sequence 37, Appl	c 242	13.6	64.8	452	3	US-09-270-767-21251	Sequence 21251, A
170	14.2	67.6	2694	3	US-09-543-681A-77	Sequence 77, Appl	c 243	13.6	64.8	452	3		

C 244	13.6	64.8	463	3	US-08-991-789A-50	Sequence 50, Appl	317	13.6	64.8	1518	2	US-08-929-501-5	Sequence 5, Appl
C 245	13.6	64.8	463	3	US-09-062-451-50	Sequence 50, Appl	C 318	13.6	64.8	1518	3	US-09-140-177-4	Sequence 4, Appl
C 246	13.6	64.8	463	3	US-09-598-326-50	Sequence 50, Appl	C 319	13.6	64.8	1518	3	US-09-140-177-5	Sequence 5, Appl
C 247	13.6	64.8	463	3	US-09-289-198-50	Sequence 50, Appl	C 320	13.6	64.8	1518	3	US-09-397-979-4	Sequence 4, Appl
C 248	13.6	64.8	463	3	US-09-429-755-50	Sequence 50, Appl	C 321	13.6	64.8	1518	3	US-09-397-979-5	Sequence 5, Appl
C 249	13.6	64.8	463	3	US-09-699-295-50	Sequence 50, Appl	C 322	13.6	64.8	1552	3	US-09-665-189A-70	Sequence 70, Appl
C 250	13.6	64.8	463	3	US-09-534-825A-50	Sequence 50, Appl	C 323	13.6	64.8	1518	3	US-09-328-352-2557	Sequence 2557, Ap
C 251	13.6	64.8	468	3	US-09-533-559-3872	Sequence 3872, Ap	C 325	13.6	64.8	1610	3	US-09-902-540-162	Sequence 162, App
C 252	13.6	64.8	483	3	US-09-621-976-17714	Sequence 17714, A	C 326	13.6	64.8	1653	3	US-09-252-991A-8491	Sequence 8491, Ap
C 253	13.6	64.8	511	3	US-09-624-268B-13	Sequence 13, Appl	C 327	13.6	64.8	1753	2	US-08-929-501-1	Sequence 1, Appl
C 254	13.6	64.8	512	3	US-09-621-976-15237	Sequence 15237, A	C 328	13.6	64.8	1753	3	US-08-929-501-3	Sequence 3, Appl
C 255	13.6	64.8	524	3	US-09-328-352-1109	Sequence 1109, Ap	C 329	13.6	64.8	1753	3	US-09-140-177-1	Sequence 1, Appl
C 256	13.6	64.8	526	3	US-08-777-708C-4	Sequence 4, Appl	C 330	13.6	64.8	1753	3	US-09-140-177-3	Sequence 3, Appl
C 257	13.6	64.8	537	3	US-09-252-991A-15270	Sequence 15270, A	C 331	13.6	64.8	1753	3	US-09-397-979-1	Sequence 1, Appl
C 258	13.6	64.8	578	3	US-09-385-982-432	Sequence 432, App	C 332	13.6	64.8	1753	3	US-09-397-979-3	Sequence 3, Appl
C 259	13.6	64.8	580	3	US-09-270-767-11615	Sequence 11615, A	C 333	13.6	64.8	1755	3	US-09-489-039A-6966	Sequence 6966, Ap
C 260	13.6	64.8	589	3	US-09-513-999C-11199	Sequence 11199, A	C 334	13.6	64.8	1770	2	US-08-929-501-11	Sequence 11, Appl
C 261	13.6	64.8	601	3	US-09-949-016-21633	Sequence 21633, A	C 335	13.6	64.8	1770	2	US-08-929-501-13	Sequence 13, Appl
C 262	13.6	64.8	601	3	US-09-949-016-21634	Sequence 21634, A	C 336	13.6	64.8	1770	3	US-09-140-177-11	Sequence 11, Appl
C 263	13.6	64.8	601	3	US-09-949-016-21635	Sequence 21635, A	C 337	13.6	64.8	1770	3	US-09-140-177-13	Sequence 13, Appl
C 264	13.6	64.8	601	3	US-09-949-016-21636	Sequence 21636, A	C 338	13.6	64.8	1770	3	US-09-397-979-11	Sequence 11, Appl
C 265	13.6	64.8	601	3	US-09-949-016-21637	Sequence 21637, A	C 339	13.6	64.8	1770	3	US-09-397-979-13	Sequence 13, Appl
C 266	13.6	64.8	601	3	US-09-949-016-61653	Sequence 61653, A	C 340	13.6	64.8	2073	2	US-08-929-501-25	Sequence 25, Appl
C 267	13.6	64.8	601	3	US-09-949-016-61775	Sequence 61775, A	C 341	13.6	64.8	2073	2	US-08-929-501-26	Sequence 26, Appl
C 268	13.6	64.8	601	3	US-09-949-016-65981	Sequence 65981, A	C 342	13.6	64.8	2073	3	US-09-140-177-25	Sequence 25, Appl
C 269	13.6	64.8	601	3	US-09-949-016-91578	Sequence 91578, A	C 343	13.6	64.8	2073	3	US-09-140-177-26	Sequence 26, Appl
C 270	13.6	64.8	601	3	US-09-949-016-151959	Sequence 151959, A	C 344	13.6	64.8	2073	3	US-09-397-979-25	Sequence 25, Appl
C 271	13.6	64.8	601	3	US-09-949-016-156554	Sequence 156554, A	C 345	13.6	64.8	2091	3	US-09-902-540-7268	Sequence 7268, Ap
C 272	13.6	64.8	601	3	US-09-949-016-156555	Sequence 156555, A	C 346	13.6	64.8	2156	2	US-08-321-356-1	Sequence 1, Appl
C 273	13.6	64.8	601	3	US-09-949-016-156556	Sequence 156556, A	C 347	13.6	64.8	2156	2	US-08-321-356-3	Sequence 3, Appl
C 274	13.6	64.8	601	3	US-09-949-016-156557	Sequence 156557, A	C 348	13.6	64.8	2156	2	US-08-651-818A-1	Sequence 1, Appl
C 275	13.6	64.8	601	3	US-09-949-016-161997	Sequence 161997, A	C 349	13.6	64.8	2160	3	US-09-184-826-1	Sequence 1, Appl
C 276	13.6	64.8	601	3	US-09-949-016-201335	Sequence 201335, A	C 350	13.6	64.8	2160	3	US-09-832-464-1	Sequence 1, Appl
C 277	13.6	64.8	601	3	US-09-949-016-201449	Sequence 201449, A	C 351	13.6	64.8	2220	3	US-09-489-039A-4703	Sequence 4703, Ap
C 278	13.6	64.8	601	3	US-09-270-767-26503	Sequence 26503, A	C 352	13.6	64.8	2376	3	US-09-252-991A-15323	Sequence 15323, A
C 279	13.6	64.8	632	3	US-09-624-268B-9	Sequence 9, Appl	C 353	13.6	64.8	2505	3	US-09-291-839-3	Sequence 3, Appl
C 280	13.6	64.8	661	3	US-09-640-211A-417	Sequence 417, App	C 354	13.6	64.8	2505	3	US-09-458-457-3	Sequence 3, Appl
C 281	13.6	64.8	661	3	US-09-533-559-6789	Sequence 6789, Ap	C 355	13.6	64.8	2505	3	US-09-947-199A-3	Sequence 3, Appl
C 282	13.6	64.8	677	3	US-09-221-017B-719	Sequence 719, App	C 356	13.6	64.8	2538	3	US-09-252-991A-1285	Sequence 1285, Ap
C 283	13.6	64.8	724	3	US-09-270-767-1468	Sequence 1468, Ap	C 357	13.6	64.8	2571	3	US-09-252-991A-1279	Sequence 1279, Ap
C 284	13.6	64.8	727	3	US-09-270-767-16750	Sequence 16750, A	C 358	13.6	64.8	2676	3	US-09-252-991A-15370	Sequence 15370, A
C 285	13.6	64.8	739	3	US-08-936-165A-166	Sequence 1656, App	C 359	13.6	64.8	2676	3	US-09-543-681A-1583	Sequence 1583, Ap
C 286	13.6	64.8	739	3	US-09-489-039A-3509	Sequence 3509, Ap	C 360	13.6	64.8	3025	3	US-09-291-839-1	Sequence 1, Appl
C 287	13.6	64.8	771	3	US-09-489-039A-1603	Sequence 1603, Ap	C 361	13.6	64.8	3025	3	US-09-458-457-1	Sequence 1, Appl
C 288	13.6	64.8	771	3	US-09-134-000C-2455	Sequence 2455, Ap	C 362	13.6	64.8	3025	3	US-09-947-199A-1	Sequence 1, Appl
C 289	13.6	64.8	772	3	US-09-270-767-10998	Sequence 10998, A	C 363	13.6	64.8	3119	3	US-09-949-016-1939	Sequence 1939, Ap
C 290	13.6	64.8	822	3	US-09-582-772-1	Sequence 1, Appl	C 364	13.6	64.8	3389	3	US-09-949-002-240	Sequence 240, App
C 291	13.6	64.8	866	3	US-09-620-312D-682	Sequence 682, App	C 365	13.6	64.8	3546	3	US-09-118-442-14	Sequence 14, Appl
C 292	13.6	64.8	866	3	US-09-489-039A-1712	Sequence 1712, Ap	C 366	13.6	64.8	3546	3	US-09-118-442-15	Sequence 15, Appl
C 293	13.6	64.8	867	3	US-09-270-767-1194	Sequence 1194, Ap	C 367	13.6	64.8	3546	3	US-09-677-064-14	Sequence 14, Appl
C 294	13.6	64.8	893	3	US-09-252-991A-4660	Sequence 4660, Ap	C 368	13.6	64.8	3546	3	US-09-677-064-15	Sequence 15, Appl
C 295	13.6	64.8	917	3	US-09-270-767-7157	Sequence 7157, Ap	C 369	13.6	64.8	3632	2	US-08-424-788-4	Sequence 4, Appl
C 296	13.6	64.8	917	3	US-09-270-767-22439	Sequence 22439, A	C 370	13.6	64.8	3632	2	US-08-110-683-1	Sequence 1, Appl
C 297	13.6	64.8	960	3	US-09-328-352-984	Sequence 984, App	C 371	13.6	64.8	3632	2	US-08-683-743-1	Sequence 1, Appl
C 298	13.6	64.8	1020	3	US-09-270-767-1194	Sequence 1194, Ap	C 372	13.6	64.8	3632	2	US-08-477-166-1	Sequence 1, Appl
C 299	13.6	64.8	1020	3	US-09-270-767-16476	Sequence 16476, A	C 373	13.6	64.8	3632	2	US-08-472-097-1	Sequence 1, Appl
C 300	13.6	64.8	1072	3	US-09-761-466-3	Sequence 3, Appl	C 374	13.6	64.8	3632	3	US-09-439-672-1	Sequence 1, Appl
C 301	13.6	64.8	1098	3	US-09-134-000C-2595	Sequence 2595, Ap	C 375	13.6	64.8	3632	3	US-09-495-052-57	Sequence 57, Appl
C 302	13.6	64.8	1104	3	US-09-252-991A-8808	Sequence 8808, Ap	C 376	13.6	64.8	3632	3	US-09-023-655-1421	Sequence 1421, Ap
C 303	13.6	64.8	1133	3	US-09-533-559-309	Sequence 309, App	C 377	13.6	64.8	3632	3	US-09-949-002-36	Sequence 36, Appl
C 304	13.6	64.8	1155	4	US-09-605-703B-179	Sequence 179, App	C 378	13.6	64.8	3632	6	PC7-US93-11638-1	Sequence 1, Appl
C 305	13.6	64.8	1176	3	US-09-489-039A-2620	Sequence 2620, Ap	C 379	13.6	64.8	3632	3	US-09-543-681A-3489	Sequence 3489, Ap
C 306	13.6	64.8	1203	3	US-09-489-039A-7114	Sequence 7114, Ap	C 380	13.6	64.8	4079	3	US-09-016-434-1477	Sequence 1477, Ap
C 307	13.6	64.8	1251	4	US-09-605-703B-181	Sequence 181, App	C 381	13.6	64.8	4232	3	US-09-270-767-12086	Sequence 12086, A
C 308	13.6	64.8	1254	3	US-09-252-991A-9160	Sequence 9160, Ap	C 382	13.6	64.8	4332	3	US-08-365-486A-18	Sequence 18, Appl
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ALIGNMENTS

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; APPLICANT: Board of Supervisors of Louisiana State University and Agricultural and
; APPLICANT: Mechanical College
; APPLICANT: Croughan, Timothy
; TITLE OF INVENTION: RESISTANCE TO ACETOHYDROXYACID SYNTHASE-INHIBITING HERBICIDES
; FILE REFERENCE: 98A9.2-PCT Croughan
; CURRENT APPLICATION NUMBER: US/10/258,842
; CURRENT FILING DATE: 2002-10-28
; PRIOR APPLICATION NUMBER: US 60/203,434
; PRIOR FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.0; and WordPerfect version 8
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; NAME/KEY: misc feature
; OTHER INFORMATION: Partial AHAS sequence, line CMC31
US-10-258-842-1

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Listing first 500 summaries

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C 97	15.2	72.4	834	7	US-10-282-1322A-41496	Sequence 41496, A	170	14.8	70.5	4802	7	US-10-263-929-30	Sequence 30, Appl
C 98	15.2	72.4	864	5	US-10-027-632-160328	Sequence 160328, A	171	14.8	70.5	4802	7	US-10-267-502-24	Sequence 24, Appl
C 99	15.2	72.4	864	6	US-10-027-632-160328	Sequence 160328, A	172	14.8	70.5	5110	10	US-11-097-143-21572	Sequence 21572, A
C 100	15.2	72.4	870	6	US-10-369-493-37233	Sequence 37233, A	C 173	14.8	70.5	5651	3	US-09-780-933-6	Sequence 6, Appl
C 101	15.2	72.4	903	6	US-10-369-493-37233	Sequence 37233, A	C 174	14.8	70.5	5651	3	US-09-896-896A-4	Sequence 4, Appl
C 102	15.2	72.4	903	6	US-10-369-493-37233	Sequence 37233, A	C 175	14.8	70.5	6051	10	US-11-097-143-25477	Sequence 25477, A
C 103	15.2	72.4	1279	7	US-10-424-559-38020	Sequence 38020, A	C 176	14.8	70.5	6186	3	US-09-780-933-5	Sequence 5, Appl
C 104	15.2	72.4	1382	8	US-10-425-115-163035	Sequence 163035, A	C 177	14.8	70.5	6186	3	US-09-896-896A-3	Sequence 3, Appl
C 105	15.2	72.4	1528	7	US-10-437-963-42083	Sequence 42083, A	C 178	14.8	70.5	6213	3	US-09-780-933-7	Sequence 7, Appl
C 106	15.2	72.4	1530	7	US-10-437-963-42083	Sequence 42083, A	C 179	14.8	70.5	6213	3	US-09-896-896A-7	Sequence 7, Appl
C 107	15.2	72.4	1630	10	US-11-097-143-24017	Sequence 24017, A	C 180	14.8	70.5	6467	8	US-10-491-121-10	Sequence 10, Appl
C 108	15.2	72.4	1656	9	US-10-469-204-109	Sequence 109, App	C 181	14.8	70.5	6561	8	US-10-491-121-4	Sequence 4, Appl
C 109	15.2	72.4	2036	7	US-10-437-963-101656	Sequence 101656, A	C 182	14.8	70.5	6624	8	US-10-491-121-3	Sequence 3, Appl
C 110	15.2	72.4	3144	9	US-10-745-237-323	Sequence 323, App	C 183	14.8	70.5	6887	8	US-10-491-121-6	Sequence 6, Appl
C 111	15.2	72.4	3150	9	US-10-469-204-52	Sequence 52, Appl	C 184	14.8	70.5	6914	8	US-10-491-121-9	Sequence 9, Appl
C 112	15.2	72.4	3404	5	US-10-114-170-94	Sequence 94, Appl	C 185	14.8	70.5	7044	8	US-10-491-121-7	Sequence 7, Appl
C 113	15.2	72.4	3513	7	US-10-260-238-472	Sequence 472, App	C 186	14.8	70.5	7154	8	US-10-491-121-1	Sequence 1, Appl
C 114	15.2	72.4	3630	10	US-11-097-143-24016	Sequence 24016, A	C 187	14.8	70.5	7188	8	US-10-491-121-2	Sequence 2, Appl
C 115	15.2	72.4	4190	5	US-10-114-170-157	Sequence 157, App	C 188	14.8	70.5	7272	9	US-10-860-878-4	Sequence 4, Appl
C 116	15.2	72.4	5450	7	US-10-437-963-67588	Sequence 67588, A	C 189	14.8	70.5	7285	9	US-10-860-878-3	Sequence 3, Appl
C 117	15.2	72.4	6752	8	US-10-688-845-43	Sequence 43, Appl	C 190	14.8	70.5	7762	10	US-11-097-143-21571	Sequence 21571, A
C 118	15.2	72.4	7991	9	US-10-795-159-350	Sequence 350, App	C 191	14.8	70.5	8199	8	US-10-491-121-29	Sequence 29, Appl
C 119	15.2	72.4	11481	5	US-10-114-170-254	Sequence 254, App	C 192	14.8	70.5	8439	8	US-10-491-121-28	Sequence 28, Appl
C 120	15.2	72.4	44377	6	US-10-085-117-40	Sequence 40, Appl	C 193	14.8	70.5	9263	10	US-11-097-143-19999	Sequence 19999, A
C 121	15.2	72.4	65792	7	US-10-672-187-31	Sequence 31, Appl	C 194	14.8	70.5	10783	8	US-10-491-121-25	Sequence 25, Appl
C 122	15.2	72.4	94720	7	US-10-052-482-160	Sequence 160, App	C 195	14.8	70.5	18959	6	US-10-353-856-19	Sequence 19, Appl
C 123	15.2	72.4	191996	9	US-10-795-159-683	Sequence 683, App	C 196	14.8	70.5	18959	6	US-10-353-856-37	Sequence 37, Appl
C 124	15.2	72.4	483728	8	US-10-699-156-2	Sequence 2, Appl	C 197	14.8	70.5	18959	6	US-10-353-856-46	Sequence 46, Appl
C 125	15.2	72.4	1830121	7	US-10-329-670-1	Sequence 1, Appl	C 198	14.8	70.5	40152	10	US-11-097-143-23353	Sequence 23353, A
C 126	15.2	72.4	1830121	8	US-10-158-865-1	Sequence 1, Appl	C 199	14.8	70.5	62231	5	US-10-087-192-493	Sequence 493, App
C 127	15.2	72.4	1830121	9	US-10-981-687-1	Sequence 1, Appl	C 200	14.8	70.5	439892	5	US-10-087-192-454	Sequence 454, App
C 128	15	71.4	665	7	US-10-424-599-64225	Sequence 64225, A	C 201	14.8	70.5	1790242	8	US-10-719-993-6940	Sequence 6940, App
C 129	14.8	70.5	201	8	US-10-719-993-43888	Sequence 43888, A	C 202	14.8	70.5	2140405	5	US-10-027-632-76212	Sequence 76212, A
C 130	14.8	70.5	432	7	US-10-437-963-72090	Sequence 72090, A	C 203	14.8	70.5	2140405	6	US-10-027-632-76212	Sequence 76212, A
C 131	14.8	70.5	607	7	US-10-437-963-55214	Sequence 55214, A	C 204	14.6	69.5	25	10	US-11-036-317-493198	Sequence 493198, A
C 132	14.8	70.5	659	4	US-09-925-065A-39435	Sequence 39435, A	C 205	14.6	69.5	255	7	US-10-437-963-60153	Sequence 60153, A
C 133	14.8	70.5	659	4	US-09-925-065A-39436	Sequence 39436, A	C 206	14.6	69.5	261	7	US-10-437-963-14086	Sequence 14086, A
C 134	14.8	70.5	725	8	US-10-363-345A-27341	Sequence 27341, A	C 207	14.6	69.5	290	9	US-10-450-763-23125	Sequence 23125, A
C 135	14.8	70.5	725	8	US-10-363-345A-27342	Sequence 27342, A	C 208	14.6	69.5	290	9	US-10-450-763-29552	Sequence 29552, A
C 136	14.8	70.5	725	9	US-10-363-483A-27342	Sequence 27342, A	C 209	14.6	69.5	292	7	US-10-424-599-84051	Sequence 84051, A
C 137	14.8	70.5	725	9	US-10-363-483A-27342	Sequence 27342, A	C 210	14.6	69.5	348	7	US-10-437-963-9070	Sequence 9070, App
C 138	14.8	70.5	760	8	US-10-363-345A-5581	Sequence 5581, App	C 211	14.6	69.5	390	8	US-10-826-967A-52	Sequence 52, Appl
C 139	14.8	70.5	760	8	US-10-363-345A-5582	Sequence 5582, App	C 212	14.6	69.5	393	8	US-10-425-115-145012	Sequence 145012, A
C 140	14.8	70.5	760	9	US-10-363-483A-5581	Sequence 5581, App	C 213	14.6	69.5	401	8	US-10-425-115-35649	Sequence 35649, A
C 141	14.8	70.5	760	9	US-10-363-483A-5582	Sequence 5582, App	C 214	14.6	69.5	403	4	US-09-925-065A-178904	Sequence 178904, A
C 142	14.8	70.5	767	8	US-10-425-115-137787	Sequence 137787, A	C 215	14.6	69.5	403	4	US-09-925-065A-178907	Sequence 178907, A
C 143	14.8	70.5	1698	6	US-10-369-493-43413	Sequence 43413, A	C 216	14.6	69.5	413	3	US-09-960-352-5114	Sequence 5114, App
C 144	14.8	70.5	1710	7	US-10-678-521-27	Sequence 27, Appl	C 217	14.6	69.5	413	3	US-09-925-065A-142437	Sequence 142437, A
C 145	14.8	70.5	1710	7	US-10-678-521-33	Sequence 33, Appl	C 218	14.6	69.5	414	4	US-09-925-065A-610789	Sequence 610789, A
C 146	14.8	70.5	1755	6	US-10-369-493-32171	Sequence 32171, A	C 219	14.6	69.5	419	4	US-10-437-963-59926	Sequence 59926, A
C 147	14.8	70.5	1785	7	US-10-678-521-34	Sequence 34, Appl	C 220	14.6	69.5	460	7	US-10-425-115-14102	Sequence 14102, A
C 148	14.8	70.5	1785	7	US-10-678-521-35	Sequence 35, Appl	C 221	14.6	69.5	488	8	US-10-425-115-14102	Sequence 14102, A
C 149	14.8	70.5	1788	7	US-10-678-521-28	Sequence 28, Appl	C 222	14.6	69.5	489	7	US-10-437-963-40583	Sequence 40583, A
C 150	14.8	70.5	1788	7	US-10-678-521-29	Sequence 29, Appl	C 223	14.6	69.5	494	4	US-09-925-065A-413831	Sequence 413831, A
C 151	14.8	70.5	1841	5	US-10-066-506A-3	Sequence 3, Appl	C 224	14.6	69.5	507	4	US-09-925-065A-442911	Sequence 442911, A
C 152	14.8	70.5	2030	9	US-10-811-353-4	Sequence 4, Appl	C 225	14.6	69.5	507	4	US-09-925-065A-442913	Sequence 442913, A
C 153	14.8	70.5	2039	5	US-10-066-506A-11	Sequence 11, Appl	C 226	14.6	69.5	507	4	US-09-925-065A-442915	Sequence 442915, A
C 154	14.8	70.5	2085	8	US-10-425-115-29119	Sequence 29119, A	C 227	14.6	69.5	514	6	US-10-131-827-8435	Sequence 8435, App
C 155	14.8	70.5	2085	8	US-10-087-192-494	Sequence 494, App	C 228	14.6	69.5	515	4	US-09-925-065A-107916	Sequence 107916, A
C 156	14.8	70.5	2298	3	US-09-337-946A-1	Sequence 1, Appl	C 229	14.6	69.5	516	7	US-10-282-122A-18510	Sequence 18510, A
C 157	14.8	70.5	2298	6	US-10-384-976-1	Sequence 1, Appl	C 230	14.6	69.5	528	4	US-09-925-065A-442912	Sequence 442912, A
C 158	14.8	70.5	2298	7	US-10-226-795-1	Sequence 1, Appl	C 231	14.6	69.5	529	4	US-09-925-065A-437754	Sequence 437754, A
C 159	14.8	70.5	2298	7	US-10-696-633-1	Sequence 1, Appl	C 232	14.6	69.5	531	4	US-09-925-065A-414032	Sequence 414032, A
C 160	14.8	70.5	2658	7	US-10-260-238-547	Sequence 547, App	C 233	14.6	69.5	531	4	US-09-925-065A-414031	Sequence 414031, A
C 161	14.8	70.5	2692	10	US-11-097-143-25478	Sequence 25478, A	C 234	14.6	69.5	533	8	US-10-425-115-111453	Sequence 111453, A
C 162	14.8	70.5	2801	7	US-10-678-521-30	Sequence 30, Appl	C 235	14.6	69.5	535	4	US-09-925-065A-178905	Sequence 178905, A
C 163	14.8	70.5	2801	7	US-10-678-521-32	Sequence 32, Appl	C 236	14.6	69.5	535	4	US-09-925-065A-178906	Sequence 178906, A
C 164	14.8	70.5	2836	7	US-10-678-521-24	Sequence 24, Appl	C 237	14.6	69.5	535	4	US-09-925-065A-178908	Sequence 178908, A
C 165	14.8	70.5	2836	7	US-10-678-521-26	Sequence 26, Appl	C 238	14.6	69.5	535	4	US-09-925-065A-610790	Sequence 610790, A
C 166	14.8	70.5	2882	7	US-10-437-963-36037	Sequence 36037, A	C 239	14.6	69.5	538	4	US-09-925-065A-437756	Sequence 437756, A
C 167	14.8	70.5	3170	10	US-11-097-143-21583	Sequence 21583, A	C 240	14.6	69.5	538	4	US-09-925-065A-437757	Sequence 437757, A
C 168	14.8	70.5	3374	7	US-10-437-963-37453	Sequence 37453, A	C 241	14.6	69.5	539	4	US-09-925-065A-128693	Sequence 128693, A
C 169	14.8	70.5	3663	10	US-11-097-143-23542	Sequence 23542, A	C 242	14.6	69.5	539	4	US-09-925-065A-128695	Sequence 128695, A

243	14.6	69.5	539	4	US-09-925-065A-128696	Sequence 128696,	C 316	14.6	69.5	1145	8	US-10-425-115-127816	Sequence 127816,
C 244	14.6	69.5	539	4	US-09-925-065A-409707	Sequence 409707,	C 317	14.6	69.5	1154	7	US-10-425-114-22837	Sequence 22837, A
C 245	14.6	69.5	539	4	US-09-925-065A-409708	Sequence 409708,	C 318	14.6	69.5	1278	7	US-10-425-114-15402	Sequence 15402, A
C 246	14.6	69.5	539	4	US-09-925-065A-409709	Sequence 409709,	C 319	14.6	69.5	1335	9	US-10-450-763-2550	Sequence 2550, Ap
C 247	14.6	69.5	539	7	US-10-437-963-15625	Sequence 15625, A	C 320	14.6	69.5	1336	8	US-10-425-115-9350	Sequence 9350, Ap
C 248	14.6	69.5	541	4	US-09-925-065A-590386	Sequence 590386,	C 321	14.6	69.5	1344	6	US-10-369-493-26451	Sequence 26451, A
C 249	14.6	69.5	542	4	US-09-925-065A-465114	Sequence 465114,	C 322	14.6	69.5	1344	6	US-10-369-493-35496	Sequence 35496, A
C 250	14.6	69.5	542	4	US-09-925-065A-465116	Sequence 465116,	C 323	14.6	69.5	1394	7	US-10-188-832-71	Sequence 71, Appl
C 251	14.6	69.5	546	4	US-09-925-065A-454939	Sequence 454939,	C 324	14.6	69.5	1398	10	US-11-097-143-42236	Sequence 42236, A
C 252	14.6	69.5	546	4	US-09-925-065A-454940	Sequence 454940,	C 325	14.6	69.5	1404	4	US-09-925-065A-708488	Sequence 708488,
C 253	14.6	69.5	552	4	US-09-925-065A-214116	Sequence 214116,	C 326	14.6	69.5	1404	4	US-09-925-065A-708489	Sequence 708489,
C 254	14.6	69.5	553	4	US-09-925-065A-655251	Sequence 655251,	C 327	14.6	69.5	1458	9	US-10-450-763-22935	Sequence 22935, A
C 255	14.6	69.5	554	4	US-09-925-065A-240314	Sequence 240314,	C 328	14.6	69.5	1488	9	US-10-450-763-23134	Sequence 23134, A
C 256	14.6	69.5	554	4	US-09-925-065A-446770	Sequence 446770,	C 329	14.6	69.5	1512	7	US-10-425-114-20910	Sequence 20910, A
C 257	14.6	69.5	555	4	US-09-925-065A-610791	Sequence 610791,	C 330	14.6	69.5	1533	8	US-10-425-115-76440	Sequence 76440, A
C 258	14.6	69.5	583	5	US-10-027-632-220855	Sequence 220855,	C 331	14.6	69.5	1539	8	US-10-425-115-173112	Sequence 173112,
C 259	14.6	69.5	583	5	US-10-027-632-220856	Sequence 220856,	C 332	14.6	69.5	1563	6	US-10-369-493-35524	Sequence 35524, A
C 260	14.6	69.5	583	6	US-10-027-632-220855	Sequence 220855,	C 333	14.6	69.5	1585	8	US-10-425-115-143865	Sequence 143865,
C 261	14.6	69.5	583	6	US-10-027-632-220856	Sequence 220856,	C 334	14.6	69.5	1614	8	US-10-425-115-18368	Sequence 18368, A
C 262	14.6	69.5	587	7	US-10-972-079-15831	Sequence 15831, A	C 335	14.6	69.5	1653	10	US-11-097-143-35774	Sequence 35774, A
C 263	14.6	69.5	593	4	US-09-925-065A-348118	Sequence 348118,	C 336	14.6	69.5	1695	7	US-10-425-114-16545	Sequence 16545, A
C 264	14.6	69.5	593	4	US-09-925-065A-590385	Sequence 590385,	C 337	14.6	69.5	1714	7	US-10-307-817-133	Sequence 133, App
C 265	14.6	69.5	597	4	US-09-925-065A-590387	Sequence 590387,	C 338	14.6	69.5	1745	7	US-10-343-593-21	Sequence 21, Appl
C 266	14.6	69.5	597	6	US-10-287-274-229	Sequence 229,	C 339	14.6	69.5	1780	7	US-10-425-114-3367	Sequence 3367, Ap
C 267	14.6	69.5	597	7	US-10-282-122A-6631	Sequence 6631, App	C 340	14.6	69.5	1780	9	US-10-450-763-23136	Sequence 23136, A
C 268	14.6	69.5	599	9	US-10-972-079-39053	Sequence 39053, A	C 341	14.6	69.5	1869	9	US-10-450-763-8245	Sequence 8245, Ap
C 269	14.6	69.5	600	9	US-10-972-079-13868	Sequence 13868, A	C 342	14.6	69.5	1869	9	US-10-450-763-25626	Sequence 25626, A
C 270	14.6	69.5	600	10	US-11-060-756-3715	Sequence 3715, Ap	C 343	14.6	69.5	1870	7	US-10-381-898-28	Sequence 28, Appl
C 271	14.6	69.5	600	10	US-11-060-756-7987	Sequence 7987, Ap	C 344	14.6	69.5	1894	3	US-09-861-696-66	Sequence 66, Appl
C 272	14.6	69.5	611	4	US-09-925-065A-414034	Sequence 414034, A	C 345	14.6	69.5	1894	3	US-09-464-099A-66	Sequence 66, Appl
C 273	14.6	69.5	619	9	US-10-450-763-29560	Sequence 29560, A	C 346	14.6	69.5	1900	8	US-10-425-115-142009	Sequence 142009,
C 274	14.6	69.5	625	4	US-09-925-065A-125991	Sequence 125991,	C 347	14.6	69.5	1914	9	US-10-450-763-9394	Sequence 9394, Ap
C 275	14.6	69.5	625	4	US-09-925-065A-125992	Sequence 125992,	C 348	14.6	69.5	2000	7	US-10-260-238-2043	Sequence 2043, Ap
C 276	14.6	69.5	634	5	US-10-027-632-164432	Sequence 164432,	C 349	14.6	69.5	2019	5	US-10-175-523-2	Sequence 2, Appli
C 277	14.6	69.5	634	6	US-10-027-632-164432	Sequence 164432,	C 350	14.6	69.5	2019	10	US-11-099-266-2	Sequence 2, Appli
C 278	14.6	69.5	635	4	US-09-925-065A-590383	Sequence 590383,	C 351	14.6	69.5	2025	8	US-10-472-260-99	Sequence 99, Appl
C 279	14.6	69.5	635	4	US-09-925-065A-590384	Sequence 590384,	C 352	14.6	69.5	2133	3	US-09-826-509-588	Sequence 588, App
C 280	14.6	69.5	642	4	US-09-925-065A-308902	Sequence 308902,	C 353	14.6	69.5	2133	8	US-10-925-095-588	Sequence 588, App
C 281	14.6	69.5	642	4	US-09-925-065A-308903	Sequence 308903,	C 354	14.6	69.5	2148	6	US-10-320-800-57	Sequence 57, Appl
C 282	14.6	69.5	646	5	US-10-027-632-255664	Sequence 255664,	C 355	14.6	69.5	2148	8	US-10-472-260-101	Sequence 101, App
C 283	14.6	69.5	646	6	US-10-027-632-255664	Sequence 255664,	C 356	14.6	69.5	2171	7	US-10-437-963-73675	Sequence 73675, A
C 284	14.6	69.5	649	4	US-09-925-065A-862665	Sequence 862665,	C 357	14.6	69.5	2234	9	US-10-450-763-22936	Sequence 22936, A
C 285	14.6	69.5	649	4	US-09-925-065A-862665	Sequence 862665,	C 358	14.6	69.5	2240	9	US-10-795-159-288	Sequence 288, App
C 286	14.6	69.5	674	3	US-09-864-408A-625	Sequence 625, App	C 359	14.6	69.5	2381	8	US-10-425-115-123127	Sequence 123127,
C 287	14.6	69.5	675	9	US-10-481-032A-1182	Sequence 1182, A	C 360	14.6	69.5	2432	7	US-10-776-989-1	Sequence 1, Appli
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SUMMARIES

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7	16.2	77.1	1403	7	US-10-509-121-35
8	16.2	77.1	1404	7	US-10-509-121-36
9	16.2	77.1	2279	7	US-10-509-121-37
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c 135	13.4	63.8	19	10	US-11-083-784-143743	Sequence 143743, A	c 208	13.4	63.8	1522	7	US-10-750-623-57458	Sequence 57458, A
c 136	13.4	63.8	19	10	US-11-083-784-831756	Sequence 831756, A	c 209	13.4	63.8	1529	7	US-10-750-185-61066	Sequence 61066, A
c 137	13.4	63.8	201	7	US-10-995-561-10767	Sequence 10767, A	c 210	13.4	63.8	1539	7	US-10-750-623-61066	Sequence 61066, A
c 138	13.4	63.8	201	7	US-10-995-561-10768	Sequence 10768, A	c 211	13.4	63.8	1539	7	US-10-750-185-49558	Sequence 49558, A
c 139	13.4	63.8	201	7	US-10-995-561-10790	Sequence 10790, A	c 212	13.4	63.8	1539	7	US-10-750-623-49558	Sequence 49558, A
c 140	13.4	63.8	201	7	US-10-995-561-10791	Sequence 10791, A	c 213	13.4	63.8	1562	7	US-10-750-185-42970	Sequence 42970, A
c 141	13.4	63.8	201	7	US-10-995-561-10814	Sequence 10814, A	c 214	13.4	63.8	1562	7	US-10-750-623-42970	Sequence 42970, A
c 142	13.4	63.8	201	7	US-10-995-561-10815	Sequence 10815, A	c 215	13.4	63.8	1603	7	US-10-750-185-30955	Sequence 30955, A
c 143	13.4	63.8	201	7	US-10-995-561-10839	Sequence 10839, A	c 216	13.4	63.8	1603	7	US-10-750-623-30955	Sequence 30955, A
c 144	13.4	63.8	201	7	US-10-995-561-10840	Sequence 10840, A	c 217	13.4	63.8	1631	7	US-10-750-185-52476	Sequence 52476, A
c 145	13.4	63.8	201	7	US-10-995-561-28644	Sequence 28644, A	c 218	13.4	63.8	1631	7	US-10-750-623-52476	Sequence 52476, A
c 146	13.4	63.8	201	7	US-10-995-561-45698	Sequence 45698, A	c 219	13.4	63.8	1652	7	US-10-750-185-45369	Sequence 45369, A
c 147	13.4	63.8	201	7	US-10-995-561-50703	Sequence 50703, A	c 220	13.4	63.8	1652	7	US-10-750-623-45369	Sequence 45369, A
c 148	13.4	63.8	201	7	US-10-995-561-50703	Sequence 50703, A	c 221	13.4	63.8	1658	7	US-10-750-185-46808	Sequence 46808, A
c 149	13.4	63.8	201	7	US-10-995-561-50707	Sequence 50707, A	c 222	13.4	63.8	1658	7	US-10-750-623-46808	Sequence 46808, A
c 150	13.4	63.8	201	7	US-10-995-561-50710	Sequence 50710, A	c 223	13.4	63.8	1679	7	US-10-750-185-59602	Sequence 59602, A
c 151	13.4	63.8	201	7	US-10-995-561-50712	Sequence 50712, A	c 224	13.4	63.8	1679	7	US-10-750-623-59602	Sequence 59602, A
c 152	13.4	63.8	201	7	US-10-995-561-50716	Sequence 50716, A	c 225	13.4	63.8	1681	7	US-10-750-185-58919	Sequence 58919, A
c 153	13.4	63.8	201	7	US-10-995-561-50718	Sequence 50718, A	c 226	13.4	63.8	1681	7	US-10-750-623-58919	Sequence 58919, A
c 154	13.4	63.8	201	7	US-10-995-561-50720	Sequence 50720, A	c 227	13.4	63.8	1706	7	US-10-750-185-35516	Sequence 35516, A
c 155	13.4	63.8	201	7	US-10-995-561-50721	Sequence 50721, A	c 228	13.4	63.8	1706	7	US-10-750-623-35516	Sequence 35516, A
c 156	13.4	63.8	201	7	US-10-995-561-50722	Sequence 50722, A	c 229	13.4	63.8	1767	7	US-10-750-185-41562	Sequence 41562, A
c 157	13.4	63.8	201	7	US-10-995-561-50738	Sequence 50738, A	c 230	13.4	63.8	1767	7	US-10-750-623-41562	Sequence 41562, A
c 158	13.4	63.8	201	7	US-10-995-561-50740	Sequence 50740, A	c 231	13.4	63.8	1784	7	US-10-750-185-63796	Sequence 63796, A
c 159	13.4	63.8	201	7	US-10-995-561-50747	Sequence 50747, A	c 232	13.4	63.8	1784	7	US-10-750-623-63796	Sequence 63796, A
c 160	13.4	63.8	201	7	US-10-995-561-75157	Sequence 75157, A	c 233	13.4	63.8	1798	7	US-10-750-185-43915	Sequence 43915, A
c 161	13.4	63.8	201	7	US-10-995-561-74473	Sequence 74473, A	c 234	13.4	63.8	1798	7	US-10-750-623-43915	Sequence 43915, A
c 162	13.4	63.8	537	7	US-10-995-561-75257	Sequence 75257, A	c 235	13.4	63.8	1839	7	US-10-750-185-42842	Sequence 42842, A
c 163	13.4	63.8	537	7	US-10-467-657-121	Sequence 121, App	c 236	13.4	63.8	1839	7	US-10-750-623-42842	Sequence 42842, A
c 164	13.4	63.8	537	7	US-10-467-657-1229	Sequence 1229, Ap	c 237	13.4	63.8	1847	7	US-10-750-185-47707	Sequence 47707, A
c 165	13.4	63.8	537	7	US-10-467-657-3751	Sequence 3751, Ap	c 238	13.4	63.8	1847	7	US-10-750-623-47707	Sequence 47707, A
c 166	13.4	63.8	727	11	US-11-024-959-147	Sequence 147, App	c 239	13.4	63.8	1854	7	US-10-750-185-49426	Sequence 49426, A
c 167	13.4	63.8	755	7	US-10-750-185-30479	Sequence 30479, A	c 240	13.4	63.8	1854	7	US-10-750-623-49426	Sequence 49426, A

C 241	13.4	63.8	1904	7	US-10-750-185-36680	Sequence 36680, A	314	13.4	63.8	66224	11	US-11-124-367A-5066	Sequence 5066, Ap
C 242	13.4	63.8	1904	7	US-10-750-623-36680	Sequence 36680, A	C 315	13.4	63.8	76559	7	US-10-995-561-13288	Sequence 13288, A
C 243	13.4	63.8	1909	7	US-10-750-185-47290	Sequence 47290, A	C 316	13.4	63.8	94510	7	US-10-995-561-13332	Sequence 13332, A
C 244	13.4	63.8	1909	7	US-10-750-623-47290	Sequence 47290, A	C 317	13.4	63.8	165156	7	US-10-995-561-13304	Sequence 13304, A
C 245	13.4	63.8	1995	7	US-10-750-185-39691	Sequence 39691, A	C 318	13.4	63.8	222094	7	US-10-995-561-13244	Sequence 13244, A
C 246	13.4	63.8	1995	7	US-10-750-623-39691	Sequence 39691, A	C 319	13.4	63.8	1691140	11	US-11-091-018-1	Sequence 1, Appl
C 247	13.4	63.8	2004	7	US-10-750-185-36956	Sequence 36956, A	C 320	13.2	62.9	25	11	US-11-121-849-14845	Sequence 14845, A
C 248	13.4	63.8	2004	7	US-10-750-623-36956	Sequence 36956, A	C 321	13.2	62.9	50	11	US-11-175-859-53577	Sequence 53577, A
C 249	13.4	63.8	2015	7	US-10-750-185-29926	Sequence 29926, A	C 322	13.2	62.9	243	7	US-10-467-657-4703	Sequence 4703, Ap
C 250	13.4	63.8	2015	7	US-10-750-623-29926	Sequence 29926, A	C 323	13.2	62.9	246	7	US-10-467-657-4705	Sequence 4705, Ap
C 251	13.4	63.8	2049	7	US-10-750-185-63383	Sequence 63383, A	C 324	13.2	62.9	528	11	US-11-128-061-2807	Sequence 2807, Ap
C 252	13.4	63.8	2049	7	US-10-750-623-63383	Sequence 63383, A	C 325	13.2	62.9	528	11	US-11-128-061-6449	Sequence 6449, Ap
C 253	13.4	63.8	2122	7	US-10-750-185-56193	Sequence 56193, A	C 326	13.2	62.9	528	11	US-11-128-049-2807	Sequence 2807, Ap
C 254	13.4	63.8	2122	7	US-10-750-623-56193	Sequence 56193, A	C 327	13.2	62.9	528	11	US-11-128-049-6449	Sequence 6449, Ap
C 255	13.4	63.8	2177	7	US-10-750-185-58800	Sequence 58800, A	C 328	13.2	62.9	532	7	US-10-750-185-3370	Sequence 3370, Ap
C 256	13.4	63.8	2177	7	US-10-750-623-58800	Sequence 58800, A	C 329	13.2	62.9	532	7	US-10-750-623-3370	Sequence 3370, Ap
C 257	13.4	63.8	2325	7	US-10-750-185-55812	Sequence 55812, A	C 330	13.2	62.9	605	6	US-10-349-331-379	Sequence 379, App
C 258	13.4	63.8	2325	7	US-10-750-623-55812	Sequence 55812, A	C 331	13.2	62.9	804	7	US-10-467-657-4063	Sequence 4063, Ap
C 259	13.4	63.8	2335	7	US-10-750-185-61057	Sequence 61057, A	C 332	13.2	62.9	832	7	US-10-750-185-58499	Sequence 58499, A
C 260	13.4	63.8	2335	7	US-10-750-623-61057	Sequence 61057, A	C 333	13.2	62.9	832	7	US-10-750-623-58499	Sequence 58499, A
C 261	13.4	63.8	2367	7	US-10-995-561-405	Sequence 405, App	C 334	13.2	62.9	937	7	US-10-750-185-44905	Sequence 44905, A
C 262	13.4	63.8	2374	7	US-10-453-372-649	Sequence 649, App	C 335	13.2	62.9	937	7	US-10-750-623-44905	Sequence 44905, A
C 263	13.4	63.8	2489	7	US-10-750-185-53608	Sequence 53608, A	C 336	13.2	62.9	943	7	US-10-750-185-54478	Sequence 54478, A
C 264	13.4	63.8	2489	7	US-10-750-623-53608	Sequence 53608, A	C 337	13.2	62.9	943	7	US-10-750-185-54478	Sequence 54478, A
C 265	13.4	63.8	2537	7	US-10-453-372-643	Sequence 643, App	C 338	13.2	62.9	1031	7	US-10-750-185-57459	Sequence 57459, A
C 266	13.4	63.8	2537	7	US-10-453-372-647	Sequence 647, App	C 339	13.2	62.9	1031	7	US-10-750-623-57459	Sequence 57459, A
C 267	13.4	63.8	2609	7	US-10-750-185-58053	Sequence 58053, A	C 340	13.2	62.9	1109	7	US-10-750-185-53635	Sequence 53635, A
C 268	13.4	63.8	2609	7	US-10-750-623-58053	Sequence 58053, A	C 341	13.2	62.9	1109	7	US-10-750-623-53635	Sequence 53635, A
C 269	13.4	63.8	2623	7	US-10-453-372-657	Sequence 657, App	C 342	13.2	62.9	1236	11	US-11-074-176-23	Sequence 23, Appl
C 270	13.4	63.8	2650	7	US-10-750-185-31090	Sequence 31090, A	C 343	13.2	62.9	1304	6	US-10-893-483-179	Sequence 179, App
C 271	13.4	63.8	2650	7	US-10-750-623-31090	Sequence 31090, A	C 344	13.2	62.9	1400	11	US-11-136-527-6575	Sequence 6575, Ap
C 272	13.4	63.8	2656	7	US-10-453-372-655	Sequence 655, App	C 345	13.2	62.9	1661	7	US-10-750-185-56735	Sequence 56735, A
C 273	13.4	63.8	2694	7	US-10-750-185-42985	Sequence 42985, A	C 346	13.2	62.9	1661	7	US-10-750-623-56735	Sequence 56735, A
C 274	13.4	63.8	2694	7	US-10-750-623-42985	Sequence 42985, A	C 347	13.2	62.9	1664	7	US-10-750-185-54660	Sequence 54660, A
C 275	13.4	63.8	2720	11	US-11-194-246-379	Sequence 379, App	C 348	13.2	62.9	1664	7	US-10-750-623-54660	Sequence 54660, A
C 276	13.4	63.8	2822	7	US-10-750-185-60923	Sequence 60923, A	C 349	13.2	62.9	1806	7	US-10-750-185-38216	Sequence 38216, A
C 277	13.4	63.8	2822	7	US-10-750-623-60923	Sequence 60923, A	C 350	13.2	62.9	1806	7	US-10-750-185-49240	Sequence 49240, A
C 278	13.4	63.8	2909	7	US-10-750-185-60514	Sequence 60514, A	C 351	13.2	62.9	1806	7	US-10-750-623-38216	Sequence 38216, A
C 279	13.4	63.8	2909	7	US-10-750-623-60514	Sequence 60514, A	C 352	13.2	62.9	1806	7	US-10-750-623-49240	Sequence 49240, A
C 280	13.4	63.8	2938	7	US-10-750-185-54310	Sequence 54310, A	C 353	13.2	62.9	1848	11	US-11-136-527-2479	Sequence 2479, Ap
C 281	13.4	63.8	2938	7	US-10-750-623-54310	Sequence 54310, A	C 354	13.2	62.9	1848	11	US-11-136-527-2479	Sequence 2479, Ap
C 282	13.4	63.8	3039	7	US-10-453-372-645	Sequence 645, App	C 355	13.2	62.9	1870	7	US-10-750-185-48697	Sequence 48697, A
C 283	13.4	63.8	3275	7	US-10-750-185-38427	Sequence 38427, A	C 356	13.2	62.9	1873	7	US-10-750-623-48697	Sequence 48697, A
C 284	13.4	63.8	3275	7	US-10-750-623-38427	Sequence 38427, A	C 357	13.2	62.9	1873	11	US-11-051-568-24	Sequence 24, Appl
C 285	13.4	63.8	3286	7	US-10-750-185-45845	Sequence 45845, A	C 358	13.2	62.9	1873	11	US-11-226-555-18	Sequence 18, Appl
C 286	13.4	63.8	3286	7	US-10-750-623-45845	Sequence 45845, A	C 359	13.2	62.9	1873	11	US-11-024-959-195	Sequence 185, App
C 287	13.4	63.8	3694	7	US-10-750-185-31037	Sequence 31037, A	C 360	13.2	62.9	2389	11	US-11-128-061-1136	Sequence 1136, Ap
C 288	13.4	63.8	3694	7	US-10-750-623-31037	Sequence 31037, A	C 361	13.2	62.9	2389	11	US-11-128-049-1136	Sequence 1136, Ap
C 289	13.4	63.8	4075	7	US-10-750-185-57933	Sequence 57933, A	C 362	13.2	62.9	2985	7	US-10-750-185-33844	Sequence 33844, A
C 290	13.4	63.8	4075	7	US-10-995-561-407	Sequence 407, App	C 363	13.2	62.9	2985	7	US-10-750-623-33844	Sequence 33844, A
C 291	13.4	63.8	4143	7	US-10-750-185-651	Sequence 651, App	C 364	13.2	62.9	3015	11	US-11-183-136-39	Sequence 39, Appl
C 292	13.4	63.8	4150	7	US-10-453-372-651	Sequence 651, App	C 365	13.2	62.9	3147	7	US-10-392-234A-19	Sequence 19, Appl
C 293	13.4	63.8	4180	7	US-10-453-372-653	Sequence 653, App	C 366	13.2	62.9	3478	11	US-11-024-959-64	Sequence 64, Appl
C 294	13.4	63.8	4200	7	US-10-750-185-53206	Sequence 53206, A	C 367	13.2	62.9	4531	11	US-11-075-646-7	Sequence 7, Appl
C 295	13.4	63.8	4200	7	US-10-750-623-53206	Sequence 53206, A	C 368	13.2	62.9	5231	7	US-10-909-125-822	Sequence 822, App
C 296	13.4	63.8	4294	7	US-10-453-372-637	Sequence 637, App	C 369	13.2	62.9	5455	7	US-10-240-708-34	Sequence 34, Appl
C 297	13.4	63.8	4294	7	US-10-453-372-661	Sequence 661, App	C 370	13.2	62.9	7003	11	US-11-038-933-1	Sequence 1, Appl
C 298	13.4	63.8	4294	7	US-10-453-372-663	Sequence 663, App	C 371	13.2	62.9	9474	11	US-11-052-554A-526	Sequence 526, App
C 299	13.4	63.8	4422	7	US-10-995-561-408	Sequence 408, App	C 372	13.2	62.9	13144	6	US-10-724-598-41	Sequence 41, Appl
C 300	13.4	63.8	4498	7	US-10-750-185-38711	Sequence 38711, A	C 373	13.2	62.9	13281	6	US-10-893-483-188	Sequence 188, App
C 301	13.4	63.8	4498	7	US-10-750-623-38711	Sequence 38711, A	C 374	13.2	62.9	13281	6	US-10-893-483-186	Sequence 186, App
C 302	13.4	63.8	4598	7	US-10-750-185-53668	Sequence 53668, A	C 375	13.2	62.9	60158	11	US-11-124-367A-5065	Sequence 5065, Ap
C 303	13.4	63.8	4598	7	US-10-750-623-53668	Sequence 53668, A	C 376	13.2	62.9	100000	11	US-11-121-086-48	Sequence 48, Appl
C 304	13.4	63.8	4607	7	US-10-453-372-659	Sequence 659, App	C 377	13.2	62.9	120697	11	US-11-121-086-86	Sequence 86, Appl
C 305	13.4	63.8	4932	7	US-10-995-561-406	Sequence 406, App	C 378	13.2	62.9	156250	11	US-11-121-086-86	Sequence 86, Appl
C 306	13.4	63.8	14121	11	US-11-124-020A-10	Sequence 10, Appl	C 379	13.2	62.9	163317	11	US-11-117-187-212	Sequence 212, App
C 307	13.4	63.8	14121	11	US-11-123-656A-3	Sequence 3, Appl	C 380	13.2	62.9	163317	11	US-11-181-234-1	Sequence 1, Appl
C 308	13.4	63.8	17141	11	US-11-198-685-13	Sequence 13, Appl	C 381	13.2	62.9	169047	11	US-11-121-086-15	Sequence 15, Appl
C 309	13.4	63.8	17141	11	US-11-198-069-13	Sequence 13, Appl	C 382	13.2	62.9	179597	11	US-11-121-086-91	Sequence 91, Appl
C 310	13.4	63.8	20945	7	US-10-995-561-13463	Sequence 13463, A	C 383	13.2	62.9	180854	11	US-11-121-086-58	Sequence 58, Appl
C 311	13.4	63.8	23082	7	US-10-995-561-13457	Sequence 13457, A	C 384	13.2	62.9	195235	7	US-10-995-561-13495	Sequence 13495, A
C 312	13.4	63.8	43445	11	US-11-124-020A-1	Sequence 1, Appl	C 385	13.2	62.9	241805	7	US-10-995-561-13215	Sequence 13215, A
C 313	13.4	63.8	43445	11	US-11-124-020A-2	Sequence 2, Appl	C 386	13.2	62.9	1082144	11	US-11-117-187-211	Sequence 211, App

387	13	61.9	19	9	US-11-101-244-1438399	Sequence 1438399, A	460	13	61.9	1634	11	US-11-152-366-9	Sequence 9, Appli
388	13	61.9	19	10	US-11-083-784-1438399	Sequence 1438399, A	c 461	13	61.9	1663	7	US-10-510-386-209	Sequence 209, App
389	13	61.9	23	7	US-10-310-914A-1177306	Sequence 1177306, A	462	13	61.9	1682	10	US-11-012-762-71	Sequence 71, Appl
390	13	61.9	25	11	US-11-121-849-70789	Sequence 70789, A	463	13	61.9	1694	7	US-10-750-185-33539	Sequence 33539, A
391	13	61.9	25	11	US-11-121-849-456339	Sequence 456339, A	464	13	61.9	1694	7	US-10-750-623-33539	Sequence 33539, A
392	13	61.9	25	11	US-11-121-849-470318	Sequence 470318, A	c 465	13	61.9	1705	7	US-10-750-185-62877	Sequence 62877, A
393	13	61.9	26	7	US-10-310-914A-546597	Sequence 546597, A	c 466	13	61.9	1705	7	US-10-750-623-62877	Sequence 62877, A
394	13	61.9	50	11	US-11-175-859-79182	Sequence 79182, A	c 467	13	61.9	1729	7	US-10-750-185-50478	Sequence 50478, A
395	13	61.9	201	7	US-10-995-561-54626	Sequence 54626, A	c 468	13	61.9	1729	7	US-10-750-623-50478	Sequence 50478, A
396	13	61.9	201	7	US-10-995-561-66526	Sequence 66526, A	c 469	13	61.9	1747	11	US-11-108-528-49	Sequence 49, Appl
397	13	61.9	201	7	US-10-995-561-66575	Sequence 66575, A	c 470	13	61.9	1751	7	US-10-750-185-35358	Sequence 35358, A
398	13	61.9	201	11	US-11-124-367A-2424	Sequence 2424, Ap	c 471	13	61.9	1751	7	US-10-750-623-35358	Sequence 35358, A
399	13	61.9	201	11	US-11-124-367A-2461	Sequence 2461, Ap	c 472	13	61.9	1791	7	US-10-467-657-3019	Sequence 3019, Ap
400	13	61.9	201	11	US-11-124-367A-2480	Sequence 2480, Ap	c 473	13	61.9	1825	11	US-11-024-959-198	Sequence 198, App
401	13	61.9	201	11	US-11-124-367A-19270	Sequence 19270, A	c 474	13	61.9	1846	11	US-11-136-537-3863	Sequence 3863, Ap
402	13	61.9	201	11	US-11-124-367A-24175	Sequence 24175, A	c 475	13	61.9	1858	11	US-11-136-527-3708	Sequence 3708, Ap
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Query Match

100.0%

Score 21;

DB 11;

Length 1788;

US-11-152-903-1

Sequence 1, Application US/11152903

Publication No. US20060010514A1

GENERAL INFORMATION:

APPLICANT: Birk, Iwona

APPLICANT: Singh, Bijay K

APPLICANT: Parker, Gregory B

TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING MATURE AHASL PROTEINS FOR CREATING

FILE REFERENCE: IM1DAZOLINONE-TOLERANT PLANTS

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NUMBER OF SEQ ID NOS: 12

SOFTWARE: Patentin version 3.2

SEQ ID NO 1

LENGTH: 1788

TYPE: DNA

ORGANISM: Triticum aestivum

FEATURE:

NAME/KEY: CDS

LOCATION: (1)...(1788)

US-11-152-903-1

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 1505.04 Seconds
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Title: US-10-805-973-12

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Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

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Maximum Match 100%

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SUMMARIES

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2	42	100.0	121	6	AX323972 Sequence
3	42	100.0	575	6	CQ969918 Sequence
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7	42	100.0	1677	6	AX705293 Sequence
8	42	100.0	1797	15	AY210407 Triticum
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c 123	29.8	71.0	121	6	AX324055	AX324055 Sequence	196	25	59.5	1758	15	RRA344990	RRA344990 Raphanus
c 124	29.8	71.0	121	6	AX324056	AX324056 Sequence	197	25	59.5	1758	15	RRA344991	RRA344991 Raphanus
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c 141	28.2	67.1	1758	15	RRA344986	AJ344986 Raphanus	214	23.4	55.7	1959	15	AY541454	AY541454 Helianthu
c 142	28.2	67.1	1758	15	RRA344987	AJ344987 Raphanus	215	23.4	55.7	1959	15	AY541455	AY541455 Helianthu
c 143	28.2	67.1	1758	15	RRA344992	AJ344992 Raphanus	216	23.4	55.7	1965	15	AY541452	AY541452 Helianthu
c 144	28.2	67.1	1758	15	RRA344993	AJ344993 Raphanus	217	23.4	55.7	1968	15	AY541451	AY541451 Helianthu
c 145	28.2	67.1	2010	6	AX6611063	AX6611063 Sequence	218	23.4	55.7	1977	15	AY541453	AY541453 Helianthu
c 146	28.2	67.1	2013	6	AX683004	AX683004 Sequence	219	23.4	55.7	2468	15	NTALSURA	X07644 Tobacco ace
c 147	28.2	67.1	2013	6	AX695992	AX695992 Sequence	220	23.4	55.7	2520	6	I05376	I05376 Sequence 5
c 148	28.2	67.1	2019	6	CQ871364	CQ871364 Sequence	221	23.4	55.7	2938	6	AX700697	AX700697 Sequence
c 149	28.2	67.1	2077	6	CQ815037	CQ815037 Sequence	222	23.4	55.7	2938	6	AX700699	AX700699 Sequence
c 150	28.2	67.1	2083	6	CQ814635	CQ814635 Sequence	223	23.4	55.7	2946	6	I05373	I05373 Sequence 2
c 151	28.2	67.1	2087	6	CQ815035	CQ815035 Sequence	224	23.4	55.7	3755	5	AF242292	AF242292 Danilo rer
c 152	28.2	67.1	2227	15	AF094326	AF094326 Bassia sc	225	23.4	55.7	145503	5	BK470238	BK470238 zebrafish
c 153	28.2	67.1	2364	6	AX6611062	AX6611062 Sequence	226	23.4	55.7	227820	14	BX640405	BX640405 Danilo rer
c 154	28.2	67.1	2365	6	AR148434	AR148434 Sequence	227	23.2	55.2	114449	15	AC146790	AC146790 Medicago
c 155	28.2	67.1	2365	15	ATCSRI2	X51514 Arabidopsis	c 228	23	54.8	171148	8	AL359195	AL359195 Human DNA
c 156	28.2	67.1	2381	15	GHAHAS5	Z46960 G.hirsutum	229	23	54.8	220599	14	AL357792	AL357792 Homo sapi
c 157	28.2	67.1	2493	6	CQ887981	CQ887981 Sequence	230	22.8	54.3	101070	6	CQ594293	CQ594293 Sequence
c 158	28.2	67.1	3231	15	GHAHAS19	Z46959 G.hirsutum	c 231	22.8	54.3	44830	14	AC014819	AC014819 Drosophila
c 159	28.2	67.1	3231	15	GHAHAS19	Z46959 G.hirsutum	232	22.8	54.3	110000	14	TANN2_00	CR940348 Theileria
c 160	28.2	67.1	14184	6	CQ766590	CQ766590 Sequence	233	22.8	54.3	113233	15	AP006351	AP006351 Lotus cor
c 161	27.2	64.8	1758	15	RRA344984	AJ344984 Raphanus	c 234	22.8	54.3	163279	2	AC104508	AC104508 Drosophil
c 162	27.2	64.8	1758	15	RRA344985	AJ344985 Raphanus	c 235	22.8	54.3	182705	2	AC091208	AC091208 Drosophil
c 163	26.6	63.3	121	6	AX324027	AX324027 Sequence	c 236	22.8	54.3	186492	14	AC162617	AC162617 Bos tauru
c 164	26.6	63.3	121	6	AX324028	AX324028 Sequence	237	22.8	54.3	244684	14	AC114841	AC114841 Rattus no

C 238	22.8	54.3	298672	14	AC108330	AC108330 Rattus no	C 311	21.8	51.9	143782	14	AC013808	AC013808 Homo sapi
C 239	22.8	54.3	315944	2	AE003564	AE003564 Drosophila	312	21.8	51.9	147945	14	AC012244	AC012244 Homo sapi
C 240	22.6	53.8	910	5	AX935628	AX935628 Gallus ga	313	21.8	51.9	157571	9	AX813317	AX813317 Mouse DNA
C 241	22.6	53.8	951	5	AX933630	AX933630 Gallus ga	314	21.8	51.9	174473	14	AC027728	AC027728 Homo sapi
C 242	22.6	53.8	951	5	AX933580	AX933580 Gallus ga	315	21.8	51.9	179093	14	AC155946	AC155946 Mus muscu
C 243	22.6	53.8	971	5	AX935042	AX935042 Gallus ga	316	21.8	51.9	185683	14	AC024283	AC024283 Homo sapi
C 244	22.6	53.8	1003	15	AY634352	AY634352 Pinus mer	C 317	21.8	51.9	192336	8	AL158155	AL158155 Human DNA
C 245	22.6	53.8	119944	4	AC111162	AC111162 Homo sapi	C 318	21.8	51.9	196443	5	CR354605	CR354605 Zebrafish
C 246	22.6	53.8	159723	14	AC021862	AC021862 Homo sapi	C 319	21.8	51.9	215781	9	AC119867	AC119867 Mus muscu
C 247	22.6	53.8	165287	8	AC090599	AC090599 Homo sapi	C 320	21.8	51.9	221079	14	AC095324	AC095324 Rattus no
C 248	22.6	53.8	171430	9	AC110599	AC110599 Homo sapi	C 321	21.8	51.9	228481	9	AC153579	AC153579 Mus muscu
C 249	22.6	53.8	186439	9	AC116817	AC116817 Mus muscu	C 322	21.8	51.9	229545	9	AC099612	AC099612 Mus muscu
C 250	22.4	53.3	2935	11	AF221618	AF221618 Synthetic	C 323	21.8	51.9	229783	14	AC113845	AC113845 Rattus no
C 251	22.4	53.3	3216	5	GCCEPUS	AJ225897 Gallus ga	C 324	21.8	51.9	236770	14	AC160435	AC160435 Bos tauru
C 252	22.4	53.3	35427	15	AC163892	AC163892 Glomus in	C 325	21.8	51.9	243876	14	AC129753	AC129753 Rattus no
C 253	22.4	53.3	184339	14	AC131371	AC131371 Rattus no	C 326	21.8	51.9	255755	14	AC126877	AC126877 Rattus no
C 254	22.4	53.3	190723	9	AC102592	AC102592 Mus muscu	C 327	21.8	51.9	260036	14	AC130079	AC130079 Rattus no
C 255	22.2	52.9	183473	9	AL928699	AL928699 Mouse DNA	C 328	21.6	51.4	1550	9	BC011068	BC011068 Mus muscu
C 256	22.2	52.9	186150	14	AC133026	AC133026 Rattus no	C 329	21.6	51.4	1604	9	BC010249	BC010249 Mus muscu
C 257	22.2	52.9	188664	9	AC121931	AC121931 Mus muscu	C 330	21.6	51.4	3236	9	BC057633	BC057633 Mus muscu
C 258	22.2	52.9	203152	14	AC131371	AC131371 Rattus no	C 331	21.6	51.4	60989	6	AX646005	AX646005 Sequence
C 259	22.2	52.9	215426	14	AC134227	AC134227 Rattus no	C 332	21.6	51.4	60989	6	AX646005	AX646005 Sequence
C 260	22.2	52.9	239357	14	AC120302	AC120302 Rattus no	C 333	21.6	51.4	77732	14	AC074074	AC074074 Homo sapi
C 261	22.2	52.9	241587	14	AC097859	AC097859 Rattus no	C 334	21.6	51.4	102840	8	AL161719	AL161719 Human DNA
C 262	22.2	52.9	246597	14	AC103510	AC103510 Rattus no	C 335	21.6	51.4	110000	15	AP008217	AP008217 168
C 263	22.2	52.9	290179	14	AC134072	AC134072 Rattus no	C 336	21.6	51.4	110000	15	AE017344	AE017344 07
C 264	22.2	52.4	18767	4	BT9913	AJ009913 Bos tauru	C 337	21.6	51.4	124321	15	AX842641	AX842641 Neurospor
C 265	22.2	52.4	58778	14	AP001959	AP001959 Homo sapi	C 338	21.6	51.4	128500	8	AC069426	AC069426 Homo sapi
C 266	22.2	52.4	129633	14	AC126770	AC126770 Homo sapi	C 339	21.6	51.4	131308	15	AC135121	AC135121 Oryza sat
C 267	22.2	52.4	132324	14	AC004737	AC004737 Homo sapi	C 340	21.6	51.4	132638	8	AC026713	AC026713 Homo sapi
C 268	22.2	52.4	138425	8	AC094098	AC094098 Homo sapi	C 341	21.6	51.4	144257	14	AC068131	AC068131 Homo sapi
C 269	22.2	52.4	157402	14	AC034161	AC034161 Homo sapi	C 342	21.6	51.4	165833	8	AL445440	AL445440 Human DNA
C 270	22.2	52.4	170687	8	BS000188	BS000188 Pan trogl	C 343	21.6	51.4	166572	14	AC097102	AC097102 Homo sapi
C 271	22.2	52.4	174707	8	AC090602	AC090602 Homo sapi	C 344	21.6	51.4	184523	14	AC149876	AC149876 Xenopus t
C 272	22.2	52.4	176601	14	AC026049	AC026049 Homo sapi	C 345	21.6	51.4	187266	14	AC073984	AC073984 Homo sapi
C 273	22.2	52.4	188754	9	AC091260	AC091260 Mus muscu	C 346	21.6	51.4	203298	14	AC073113	AC073113 Homo sapi
C 274	22.2	52.4	197730	14	AC019094	AC019094 Homo sapi	C 347	21.6	51.4	205433	14	AC154392	AC154392 Mus muscu
C 275	22.2	52.4	202009	14	CT010440	CT010440 Mus muscu	C 348	21.6	51.4	219481	14	AC161435	AC161435 Mus muscu
C 276	22.2	52.4	203244	8	AC090983	AC090983 Homo sapi	C 349	21.6	51.4	250264	14	AC108970	AC108970 Rattus no
C 277	22.2	52.4	210563	8	AC034154	AC034154 Homo sapi	C 350	21.4	51.0	12016	1	AE009851	AE009851 Pyrobacul
C 278	22.2	52.4	229137	14	AC156663	AC156663 Bos tauru	C 351	21.4	51.0	73938	14	AC044861	AC044861 Mus muscu
C 279	21.8	51.9	65	6	CQ556623	CQ556623 Sequence	C 352	21.4	51.0	107506	8	HS04472M2	HS04472M2 Human DNA
C 280	21.8	51.9	300	6	AX394164	AX394164 Sequence	C 353	21.4	51.0	110000	1	CR522870	CR522870 34
C 281	21.8	51.9	380	6	AX394163	AX394163 Sequence	C 354	21.4	51.0	110000	14	AC099203	AC099203 2
C 282	21.8	51.9	407	6	AX394162	AX394162 Sequence	C 355	21.4	51.0	110000	14	AC121713	AC121713 1
C 283	21.8	51.9	1003	15	AY634353	AY634353 Pinus rox	C 356	21.4	51.0	160104	14	AC155951	AC155951 Xenopus t
C 284	21.8	51.9	1259	9	MMU60473	MMU60473 Mus muscu	C 357	21.4	51.0	160104	14	AC155951	AC155951 Xenopus t
C 285	21.8	51.9	1504	15	D89172	D89172 Schizosacch	C 358	21.4	51.0	164520	14	AC020738	AC020738 Homo sapi
C 286	21.8	51.9	1941	15	AY541458	AY541458 Helianthu	C 359	21.4	51.0	176719	5	AL935318	AL935318 Zebrafish
C 287	21.8	51.9	1968	6	AX367150	AX367150 Sequence	C 360	21.4	51.0	180209	8	AL160271	AL160271 Human DNA
C 288	21.8	51.9	2100	6	AX747163	AX747163 Sequence	C 361	21.4	51.0	183807	9	AC101956	AC101956 Mus muscu
C 289	21.8	51.9	2100	8	AK091755	AK091755 Homo sapi	C 362	21.4	51.0	186285	14	AC116775	AC116775 Mus muscu
C 290	21.8	51.9	2432	15	AF024632	AF024632 Volvox ca	C 363	21.4	51.0	187493	9	AC157279	AC157279 Mus muscu
C 291	21.8	51.9	5367	1	FS024632	FS024632 Sequence	C 364	21.4	51.0	189628	14	AC146318	AC146318 Gallus ga
C 292	21.8	51.9	6462	15	AF044920	AF044920 Volvox ca	C 365	21.4	51.0	191450	14	AC091715	AC091715 Bos tauru
C 293	21.8	51.9	13528	9	AF247652	AF247652 Mus muscu	C 366	21.4	51.0	195491	14	AC097349	AC097349 Bos tauru
C 294	21.8	51.9	16555	5	AP002936	AP002936 Danacetic	C 367	21.4	51.0	199500	9	AL596103	AL596103 Mouse DNA
C 295	21.8	51.9	23645	15	SPBC2G5	SPBC2G5 S.pombe	C 368	21.4	51.0	203372	14	AC121346	AC121346 Rattus no
C 296	21.8	51.9	48384	9	AF292401	AF292401 Mus muscu	C 369	21.4	51.0	203765	14	AC139635	AC139635 Gallus ga
C 297	21.8	51.9	67473	1	AE016854	AE016854 Pseudomon	C 370	21.4	51.0	211191	14	AC162438	AC162438 Salmiri b
C 298	21.8	51.9	70663	14	AC073400	AC073400 Homo sapi	C 371	21.4	51.0	221343	14	AC134286	AC134286 Rattus no
C 299	21.8	51.9	74377	8	AC010499	AC010499 Homo sapi	C 372	21.4	51.0	222089	14	AC160122	AC160122 Mus muscu
C 300	21.8	51.9	85995	14	AC027404	AC027404 Homo sapi	C 373	21.4	51.0	224649	14	AC128414	AC128414 Rattus no
C 301	21.8	51.9	89162	8	AC109779	AC109779 Homo sapi	C 374	21.4	51.0	244321	14	AC103189	AC103189 Rattus no
C 302	21.8	51.9	92049	8	AC019064	AC019064 Homo sapi	C 375	21.4	51.0	246176	14	AC095114	AC095114 Rattus no
C 303	21.8	51.9	99338	8	AC024567	AC024567 Homo sapi	C 376	21.4	51.0	251161	14	AC121728	AC121728 Rattus no
C 304	21.8	51.9	104150	14	CT010521	CT010521 Medicago	C 377	21.4	51.0	262954	14	AC147863	AC147863 Gallus ga
C 305	21.8	51.9	110000	15	AP008207	AP008207 2221	C 378	21.4	51.0	278939	14	AC121436	AC121436 Rattus no
C 306	21.8	51.9	121439	8	AC010236	AC010236 Homo sapi	C 379	21.4	51.0	291913	14	AC099201	AC099201 Rattus no
C 307	21.8	51.9	125920	15	AP003432	AP003432 Oryza sat	C 380	21.4	51.0	349980	6	CQ870290	CQ870290 Sequence
C 308	21.8	51.9	137074	4	AC145184	AC145184 Macropus	C 381	21.2	50.5	2277	5	BC095267	BC095267 Danio rer
C 309	21.8	51.9	143029	9	AC129012	AC129012 Mus muscu	C 382	21.2	50.5	3315	15	BNALS	BNALS B.brassica na
C 310	21.8	51.9	143370	14	AC130412	AC130412 Homo sapi	C 383	21.2	50.5	3326	15	BNASHYII	BNASHYII B.napus gen

384	21.2	50.5	23019	8	HSE141E2	AL049750 Human DNA	10	191858	9	AC132376	AC132376 Mus muscu		
385	21.2	50.5	98471	15	AC160924	AC160924 Medicago	14	198181	14	CR855385	CR855385 Danio rer		
386	21.2	50.5	107371	15	AC148764	AC148764 Medicago	14	201210	14	AC024932	AC024932 Homo sapi		
387	21.2	50.5	110000	1	CP000088_16	Continuation (17 o	21	50.0	216010	14	AC119517	AC119517 Rattus no	
388	21.2	50.5	110000	15	CR380953_05	Continuation (6 of	21	50.0	231893	8	CNS01RHO	AL162151 Human chr	
389	21.2	50.5	112999	8	AC004772	AC004772 Homo sapi	462	50.0	243297	14	AC152090	AC152090 Bos tauru	
390	21.2	50.5	134800	9	AC121544	AC121544 Mus muscu	463	50.0	249542	14	AC165160	AC165160 Mouse DNA	
391	21.2	50.5	151037	8	AC092620	AC092620 Homo sapi	464	50.0	252977	9	AL732486	AL732486 Mouse DNA	
392	21.2	50.5	153647	14	AC079992	AC079992 Homo sapi	465	50.0	262048	9	AC093483	AC093483 Mus muscu	
393	21.2	50.5	160984	14	AC021281	AC021281 Homo sapi	466	50.0	270387	14	AC097676	AC097676 Rattus no	
394	21.2	50.5	167138	8	AC147158	AC147158 Pan trogl	467	50.0	280915	14	AC112104	AC112104 Rattus no	
395	21.2	50.5	169247	9	AC103621	AC103621 Mus muscu	468	50.0	296171	14	AC153296	AC153296 Bos tauru	
396	21.2	50.5	170276	8	BS000634	BS000634 Pan trogl	469	50.0	340000	8	AP001748	AP001748 Homo sapi	
397	21.2	50.5	176076	14	AC151094	AC151094 Bos tauru	470	50.0	346357	1	BX842647	BX842647 Bdellovib	
398	21.2	50.5	182876	14	AC152865	AC152865 Dasytus n	471	20.8	49.5	349	6	CQ455335	CQ455335 Sequence
399	21.2	50.5	190308	8	BS000641	BS000641 Pan trogl	472	20.8	49.5	608	5	AV142943	AV142943 Meleagris
400	21.2	50.5	194165	9	AC102162	AC102162 Mus muscu	473	20.8	49.5	625	10	BV280144	BV280144 S232P6209
401	21.2	50.5	198795	14	AC157903	AC157903 Mus muscu	474	20.8	49.5	4460	6	AR103929	AR103929 Sequence
402	21.2	50.5	199670	5	BX000534	BX000534 Zebrafish	475	20.8	49.5	4460	6	AR236522	AR236522 Sequence
403	21.2	50.5	205056	14	AC132734	AC132734 Rattus no	476	20.8	49.5	4555	1	D88655	D88655 Streptococc
404	21.2	50.5	209986	9	AL670953	AL670953 Mouse DNA	477	20.8	49.5	4749	1	D88652	D88652 Streptococc
405	21.2	50.5	213099	14	AC132659	AC132659 Rattus no	478	20.8	49.5	4749	1	D88661	D88661 Streptococc
406	21.2	50.5	217151	9	AC152401	AC152401 Mus muscu	479	20.8	49.5	4749	1	D89978	D89978 Streptococc
407	21.2	50.5	217685	14	AC149677	AC149677 Bos tauru	480	20.8	49.5	4757	1	D88658	D88658 Streptococc
408	21.2	50.5	226685	14	AC105531	AC105531 Rattus no	481	20.8	49.5	4896	1	STRGTFC	M22054 S.mutans gl
409	21.2	50.5	233613	14	AC135537	AC135537 Rattus no	482	20.8	49.5	4896	6	AR236523	AR236523 Sequence
410	21.2	50.5	240136	14	AC109369	AC109369 Rattus no	483	20.8	49.5	5684	1	D88651	D88651 Streptococc
411	21.2	50.5	241486	14	AC130137	AC130137 Rattus no	484	20.8	49.5	5684	1	D88654	D88654 Streptococc
412	21.2	50.5	252370	14	AC094828	AC094828 Rattus no	485	20.8	49.5	5684	1	D88660	D88660 Streptococc
413	21.2	50.5	256471	14	AC144044	AC144044 Macaca mu	486	20.8	49.5	5684	1	D89977	D89977 Streptococc
414	21.2	50.5	274636	14	AC114077	AC114077 Rattus no	487	20.8	49.5	5684	6	BD143239	BD143239 Preventiv
415	21	50.0	708	10	BV604258	BV604258 S217P6133	488	20.8	49.5	5684	6	BD175832	BD175832 Method an
416	21	50.0	1471	1	AB039769	AB039769 Thermotog	489	20.8	49.5	5686	1	D88657	D88657 Streptococc
417	21	50.0	1521	1	THU89768	THU89768 Thermotoga	490	20.8	49.5	7733	1	AB078507	AB078507 Streptococ
418	21	50.0	1521	5	CR761439	CR761439 Xenopus t	491	20.8	49.5	10029	1	STRGTFC	M17361 S.mutans gl
419	21	50.0	9839	8	HS2495622	AJ295622 Homo sapi	492	20.8	49.5	14037	1	AE014940	AE014940 Streptococ
420	21	50.0	28046	8	AF042836	AF042836 Homo sapi	493	20.8	49.5	38425	8	AL512372	AL512372 Human DNA
421	21	50.0	46718	6	AR280257	AR280257 Sequence	494	20.8	49.5	79962	14	AC165989	AC165989 Bos tauru
422	21	50.0	48508	14	AC012179	AC012179 Homo sapi	495	20.8	49.5	101662	9	CR936845	CR936845 Mouse DNA
423	21	50.0	62871	8	AL356860	AL356860 Human DNA	496	20.8	49.5	107429	8	HSJ214M20	AL121969 Human DNA
424	21	50.0	67789	8	AC073312	AC073312 Homo sapi	497	20.8	49.5	110000	1	AE013598_40	Continuation (41 o
425	21	50.0	68108	14	AC113394	AC113394 Homo sapi	498	20.8	49.5	110000	1	CP000020_04	Continuation (5 of
426	21	50.0	70282	14	AC091141	AC091141 Homo sapi	499	20.8	49.5	110000	14	CR974449	CR974449 Mus muscu
427	21	50.0	96202	8	AL138824	AL138824 Human DNA	500	20.8	49.5	110000	15	AE016816_0	AE016816 Ashbya go
428	21	50.0	97015	8	AP002085	AP002085 Homo sapi							
429	21	50.0	106861	8	AL590551	AL590551 Human DNA							
430	21	50.0	110000	15	AP008210_177	Continuation (178							
431	21	50.0	128277	14	AC069107	AC069107 Homo sapi							
432	21	50.0	132164	8	AC098587	AC098587 Homo sapi							
433	21	50.0	137127	14	AC069194	AC069194 Homo sapi							
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446	21	50.0	182679	8	AL365207	AL365207 Human DNA							
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RESULT 1

AX323971

LOCUS

AX323971

DEFINITION

Sequence 109 from Patent WO0192512.

ACCESSION

AX323971

VERSION

AX323971.1 GI:18094722

KEYWORDS

Hordeum vulgare

SOURCE

Hordeum vulgare

ORGANISM

Hordeum vulgare

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Hordeum.

REFERENCE

1

Kmiec,B.B., Gamper,H.B., Rice,M.C. and Kim,J.

AUTHORS

Targeted chromosomal genomic alterations in plants using modified single stranded oligonucleotides

JOURNAL

Patent: WO 0192512-A 109 06-DEC-2001;

UNIVERSITY OF DELAWARE (US)

FEATURES

Location/Qualifiers

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/mol_type="unassigned DNA"

/db_xref="taxon:4513"

ORIGIN

ALIGNMENTS

121 bp DNA linear PAT 02-SEP-2002

AX323971

Sequence 109 from Patent WO0192512.

AX323971

GI:18094722

Hordeum vulgare

Hordeum vulgare

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Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Hordeum.

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1..121

/organism="Hordeum vulgare"

/mol_type="unassigned DNA"

/db_xref="taxon:4513"

ORIGIN

GenCore version 5.1.7
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(without alignments)
787.645 Million cell updates/sec

Title: US-10-805-973-12

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Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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72	33	78.6	121	12	ADN43597
73	33	78.6	121	12	ADN43596
74	33	78.6	121	12	ADN43413
75	33	78.6	1969	2	AAQ34551
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84	32.4	77.1	1935	10	ADP50214
85	32.4	77.1	1936	14	ADY79266
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Adf50222	Partial A
Adv11376	Imidazoli
Adv11358	Imidazoli
Adv11366	Durum whe
Adv11368	Durum whe
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Adv11370	Durum whe
Abk24737	Glyphosat
Abk24738	Glyphosat
Adn43428	Mutant ce
Adn43429	Mutant ce
Acc00300	Mutant ac
Adf50206	Wheat Tea
Adf50230	Partial A
Adf50226	Partial A
Adf50228	Partial A
Adf50234	Partial A
Adv11362	Imidazoli
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Adv11372	Durum whe
Adv11364	Durum whe
Adv11369	Durum whe
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Acc00301	Wild-type
Abz82274	Acetohydr
Abk24725	Glyphosat
Abk24726	Glyphosat
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Adn43417	Mutant ce
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Abk24893	Glyphosat
Abk24709	Glyphosat
Abk24710	Glyphosat
Abk24782	Glyphosat
Abk24938	Glyphosat
Adn43629	Mutant ce
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Adn43401	Mutant ce
Adn43628	Mutant ce
Adn43584	Mutant ce
Adn43585	Mutant ce
Adn43473	Mutant ce
Abk14668	Partial c
Abk14669	cdna enco
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Abk24906	Glyphosat
Abk24722	Glyphosat
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Adn43597	Mutant ce
Adn43596	Mutant ce
Adn43413	Mutant ce
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Av24025	AHAS clon
Abz55707	DNA enco
Aaq25381	Sequence
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Adv23157	Smooth pi
Ady79260	DNA enco
Ady79258	DNA enco
Adv23159	Smooth pi
Adf50214	Rice ALS/
Ady79266	DNA enco
Ady79256	DNA enco
Ady79264	DNA enco
Abk14667	Rice acet
Ady79262	DNA enco
Abk14658	cdna enco
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Add42026	Rice acet

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95	32.4	77.1	2301	6	ABK14657	Abk14657 Rice acet	c 168	26.6	63.3	121	6	ABK24806	Abk24806 Glyphosat
96	32.4	77.1	2301	10	ADD42020	Add42020 Rice acet	169	26.6	63.3	121	12	ADN43496	Adn43496 Mutant ce
97	31.4	74.8	1478	13	ADO83726	Ado83726 Plant ful	c 170	26.6	63.3	121	12	ADN43487	Adn43487 Mutant ce
98	31.4	74.8	1625	13	ADX60490	Adx60490 Plant ful	171	26.6	63.3	1574	13	ADT92069	Adt92069 B. napus
99	31.4	74.8	1969	2	RAQ34552	Raq34552 Herbicide	172	26.6	63.3	1707	10	ADH80252	Adh80252 Chicory a
100	31.4	74.8	1969	2	RAQ34553	Raq34553 Herbicide	173	26.6	63.3	1707	10	ADH80254	Adh80254 Chicory a
101	31.4	74.8	1969	2	AAV24026	Aav24026 AHAS clon	174	26.6	63.3	1950	12	ADO06869	Ado06869 Brassica
102	31.4	74.8	1969	6	AAV24027	Aav24027 AHAS clon	175	26.6	63.3	1990	12	ADO06865	Ado06865 Brassica
103	31.4	74.8	1969	6	ABS55709	Abs55709 DNA encod	176	26.6	63.3	1994	12	ADO06868	Ado06868 Brassica
104	31.4	74.8	1969	6	ABS55708	Abs55708 DNA encod	177	26.6	63.3	1994	12	ADO06863	Ado06863 Brassica
105	31.4	74.8	2089	2	RAQ25380	Raq25380 Sequence	178	26.6	63.3	2013	3	AAO06863	AAO06863 Arabidops
106	31.4	74.8	2141	2	RAQ25382	Raq25382 Sequence	179	26.6	63.3	2013	3	AAC51624	Aac51624 Arabidops
107	31.4	74.8	2216	13	ADQ09977	Adq09977 Plant ful	180	26.6	63.3	2013	10	AAE60033	Aae60033 A. thalia
108	31.4	74.8	2546	2	AAQ03661	Aaq03661 Maize C3	181	26.6	63.3	2013	10	AAE60034	Aae60034 A. thalia
109	31.4	74.8	2967	2	AAQ03659	Aaq03659 Maize C1	182	26.6	63.3	2025	12	ADO06866	Ado06866 Brassica
c 110	31	73.8	41	10	ACF79782	Acf79782 Maize ace	183	26.6	63.3	2083	12	ADN43138	Adn43138 Brassica
c 111	29.8	71.0	121	6	ABK24689	Abk24689 Glyphosat	184	26.6	63.3	2116	12	ADN43137	Adn43137 Brassica
c 112	29.8	71.0	121	6	ABK24922	Abk24922 Glyphosat	185	26.6	63.3	2160	12	ADO06867	Ado06867 Brassica
c 113	29.8	71.0	121	6	ABK24834	Abk24834 Glyphosat	186	26.6	63.3	2359	12	ADO06881	Ado06881 Brassica
c 114	29.8	71.0	121	6	ABK24921	Abk24921 Glyphosat	187	26.6	63.3	2365	2	AAV11890	Aav11890 A. thalia
c 115	29.8	71.0	121	6	ABK24765	Abk24765 Glyphosat	188	26.6	63.3	2378	12	ADO06880	Ado06880 Brassica
c 116	29.8	71.0	121	6	ABK24833	Abk24833 Glyphosat	189	26.6	63.3	2523	2	AAQ26001	Aaq26001 Trp574 de
c 117	29.8	71.0	121	6	ABK24690	Abk24690 Glyphosat	190	26.6	63.3	2523	2	AAQ11496	Aaq11496 Tobacco h
c 118	29.8	71.0	121	6	ABK24766	Abk24766 Glyphosat	191	26.6	63.3	2907	2	AAQ28389	Aaq28389 Gene from
c 119	29.8	71.0	121	12	ADN43381	Adn43381 Mutant ce	192	26.6	63.3	2907	2	AAQ81183	Aaq81183 Herbicide
c 120	29.8	71.0	121	12	ADN43524	Adn43524 Mutant ce	193	26.6	63.3	2907	2	AAQ72864	Aaq72864 Arabidops
c 121	29.8	71.0	121	12	ADN43457	Adn43457 Mutant ce	c 194	25	59.5	121	6	ABK24794	Abk24794 Glyphosat
c 122	29.8	71.0	121	12	ADN43525	Adn43525 Mutant ce	195	25	59.5	121	6	ABK24793	Abk24793 Glyphosat
c 123	29.8	71.0	121	12	ADN43612	Adn43612 Mutant ce	c 196	25	59.5	121	12	ADN43485	Adn43485 Mutant ce
c 124	29.8	71.0	121	12	ADN43456	Adn43456 Mutant ce	197	25	59.5	121	12	ADN43484	Adn43484 Mutant ce
c 125	29.8	71.0	121	12	ADN43380	Adn43380 Mutant ce	c 198	25	59.5	521	13	ACN46693	Acn46693 Cotton pr
c 126	29.8	71.0	121	12	ADN43613	Adn43613 Mutant ce	c 199	25	59.5	521	13	ACN46693	Acn46693 Cotton pr
c 127	29.4	70.0	41	10	ACF79780	Acf79780 Maize ace	200	25	59.5	2116	12	ADN43139	Adn43139 Brassica
c 128	29.4	70.0	41	10	ACF79779	Acf79779 Maize ace	201	25	59.5	2156	2	AAQ77305	Aaq77305 cDNA enco
c 129	29.4	70.0	41	10	ACF79781	Acf79781 Maize ace	202	25	59.5	2156	2	AAQ77306	Aaq77306 cDNA enco
c 130	28.2	67.1	121	6	ABK24694	Abk24694 Glyphosat	203	25	59.5	2461	12	ADO26392	Ado26392 N tabacum
c 131	28.2	67.1	121	6	ABK24822	Abk24822 Glyphosat	204	25	59.5	2702	2	AAV55872	Aav55872 Plant ace
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c 133	28.2	67.1	121	6	ABK24878	Abk24878 Glyphosat	206	25	59.5	2930	2	AAQ11494	Aaq11494 Tobacco S
c 134	28.2	67.1	121	6	ABK24693	Abk24693 Glyphosat	207	25	59.5	2930	2	AAQ28387	Aaq28387 Gene from
c 135	28.2	67.1	121	6	ABK24849	Abk24849 Glyphosat	208	25	59.5	2930	2	AAQ81181	Aaq81181 ALS SURB-
c 136	28.2	67.1	121	6	ABK24850	Abk24850 Glyphosat	209	25	59.5	2930	2	AAQ72863	Aaq72863 Tobacco S
c 137	28.2	67.1	121	6	ABK24862	Abk24862 Glyphosat	210	25	59.5	2946	1	AAQ81458	Aaq81458 Hra mutan
c 138	28.2	67.1	121	6	ABK24877	Abk24877 Glyphosat	211	25	59.5	2946	2	AAQ73352	Aaq73352 Tobacco h
c 139	28.2	67.1	121	6	ABK24821	Abk24821 Glyphosat	212	24.6	58.6	253	10	ADF37959	Adf37959 Synchroni
c 140	28.2	67.1	121	12	ADN43553	Adn43553 Mutant ce	c 213	23.6	56.2	68	2	AAQ76998	Aaq76998 Chimeric
c 141	28.2	67.1	121	12	ADN43541	Adn43541 Mutant ce	c 214	23.6	56.2	68	14	ABE17359	AbE17359 Chimeric
c 142	28.2	67.1	121	12	ADN43568	Adn43568 Mutant ce	c 215	23.6	56.2	68	14	ABE17381	AbE17381 Chimeric
c 143	28.2	67.1	121	12	ADN43385	Adn43385 Mutant ce	c 216	23.6	56.2	68	14	ABE17384	AbE17384 Chimeric
c 144	28.2	67.1	121	12	ADN43569	Adn43569 Mutant ce	217	23.6	56.2	1095	6	ABK14656	Abk14656 Rice acet
c 145	28.2	67.1	121	12	ADN43512	Adn43512 Mutant ce	218	23.6	56.2	1985	6	ABK14670	Abk14670 cDNA enco
c 146	28.2	67.1	121	12	ADN43384	Adn43384 Mutant ce	219	23.4	55.7	2520	1	AAQ11495	Aaq11495 Tobacco S
c 147	28.2	67.1	121	12	ADN43540	Adn43540 Mutant ce	220	23.4	55.7	2520	2	AAQ11495	Aaq11495 Tobacco S
c 148	28.2	67.1	121	12	ADN43513	Adn43513 Mutant ce	221	23.4	55.7	2520	2	AAQ28388	Aaq28388 Gene from
c 149	28.2	67.1	121	12	ADN43552	Adn43552 Mutant ce	222	23.4	55.7	2520	2	AAQ81182	Aaq81182 ALS SURA-
c 150	28.2	67.1	326	12	ADN43568	Adn43568 Cotton ex	223	23.4	55.7	2520	2	AAQ33353	Aaq33353 Tobacco h
c 151	28.2	67.1	478	13	ACN47100	Acn47100 Cotton pr	224	23.4	55.7	2520	2	AAQ72862	Aaq72862 Tobacco C
c 152	28.2	67.1	551	13	ACN47084	Acn47084 Cotton pr	225	23.4	55.7	2938	8	ABZ76103	AbZ76103 H. annus
c 153	28.2	67.1	5013	8	ABX94737	Abx94737 A. thalia	226	23.4	55.7	2938	8	ABZ76104	AbZ76104 H. annus
c 154	28.2	67.1	2013	10	ACA63085	Aca63085 A. thalia	227	22.8	54.3	10170	4	ABL16540	AbL16540 Drosophil
c 155	28.2	67.1	2019	13	ADS33244	Ads33244 Arabidops	228	21.8	51.9	65	6	ABN53510	AbN53510 Mouse epl
c 156	28.2	67.1	2077	12	ADO06864	Ado06864 Brassica	229	21.8	51.9	300	6	ABK47195	AbK47195 Mouse EST
c 157	28.2	67.1	2083	12	ADN43136	Adn43136 Brassica	230	21.8	51.9	300	12	ADQ90483	AdQ90483 Mouse OCS
c 158	28.2	67.1	2087	12	ADO06862	Ado06862 Brassica	231	21.8	51.9	380	6	ABK47194	AbK47194 Mouse OCS
c 159	28.2	67.1	2300	6	AAQ62735	Aaq62735 Herbicide	232	21.8	51.9	380	12	ADQ90482	AdQ90482 Mouse ast
c 160	28.2	67.1	2364	2	AAU44391	Aau44391 Modified	233	21.8	51.9	405	6	ABK47193	AbK47193 Mouse CD5
c 161	28.2	67.1	2365	2	AAU11891	Aau11891 A. thalia	234	21.8	51.9	407	12	ADQ90481	AdQ90481 Mouse ast
c 162	28.2	67.1	2365	2	AAU11891	Aau11891 A. thalia	235	21.8	51.9	1968	6	AAQ29251	Aaq29251 Soybean a
c 163	28.2	67.1	2493	13	ADS51629	Ads51629 Arabidops	236	21.8	51.9	2055	13	ADS47783	AdS47783 Bacterial
c 164	28.2	67.1	5717	12	ADI34712	Adi34712 A. thalia	237	21.8	51.9	2100	10	ADB62534	AdB62534 Human cDN
c 165	28.2	67.1	14184	12	ADL27876	Adl27876 E coli co	238	21.8	51.9	3979	13	ADR20217	AdR20217 Soybean e

239	21.6	51.4	1575	13	ADS49029	Adx49029 Bacterial	312	20	47.6	1182	8	ACA43844	Aca43844 Prokaryot
c 240	21.4	51.0	60989	10	ADC85744	Adc85744 Human GPC	313	20	47.6	1452	5	AAS88504	Aas88504 DNA encod
c 241	21.4	51.0	110000	13	ABD32966_02	Continuation (3 of	c 314	20	47.6	1514	5	AAS86721	Aas86721 DNA encod
242	21.2	50.5	2745	14	ADM16769	Adm16769 Pinus rad	c 315	20	47.6	1600	13	ADX15108	Adx15108 Plant ful
243	21	50.0	521	8	ABX98502	Abx98502 Rice albu	c 316	20	47.6	1665	4	APF60987	Apf60987 P. putida
c 244	21	50.0	19851	4	AK85642	Ak85642 Human imm	c 317	20	47.6	2000	11	ACL37425	Ac137425 Rice scre
c 245	21	50.0	46718	8	ASS57422	Ass57422 Human pro	c 318	19.8	47.1	375	13	ADX31596	Adx31596 Plant ful
c 246	21	50.0	46718	10	ADG62974	Adg62974 Human pro	c 319	19.8	47.1	556	13	ADX47181	Adx47181 Plant ful
247	20.8	49.5	349	6	ABN26309	Abn26309 Human ORF	c 320	19.8	47.1	593	13	ADX61399	Adx61399 Plant ful
248	20.8	49.5	387	3	ADF56785	Adf56785 Urogenita	c 321	19.8	47.1	616	13	ADX12643	Adx12643 Plant ful
249	20.8	49.5	2382	8	ABT18856	Abt18856 Aspergill	c 322	19.8	47.1	622	5	ABV53229	Abv53229 Human pro
250	20.8	49.5	2436	8	ABT18262	Abt18262 Aspergill	c 323	19.8	47.1	650	13	ADX35258	Adx35258 Plant ful
251	20.8	49.5	2580	8	ABT20676	Abt20676 Aspergill	c 324	19.8	47.1	653	13	ADX46911	Adx46911 Plant ful
252	20.8	49.5	2819	8	ABT20078	Abt20078 Aspergill	c 325	19.8	47.1	689	13	ADX54164	Adx54164 Plant ful
253	20.8	49.5	4436	8	ABT17668	Abt17668 Aspergill	c 326	19.8	47.1	695	13	ADX52147	Adx52147 Plant ful
254	20.8	49.5	4460	6	ABK52938	Abk52938 S. mutans	c 327	19.8	47.1	744	11	ACN92844	Acn92844 Breast ca
255	20.8	49.5	4819	8	ABT19482	Abt19482 Aspergill	c 328	19.8	47.1	1146	13	ADR91885	Adr91885 Novel S.
256	20.8	49.5	4896	6	ABK52939	Abk52939 S. mutans	c 329	19.8	47.1	1146	14	AEA55755	Aea55755 Streptoco
257	20.8	49.5	5684	6	ABK52424	Abk52424 Streptoco	c 330	19.8	47.1	1203	13	ADK45904	Adk45904 Streptoco
258	20.6	49.0	1258	5	AEA21433	Aea21433 Human ner	c 331	19.8	47.1	1206	3	AAA81654	Aaa81654 N. mening
259	20.6	49.0	19211	3	AAA81507	Aaa81507 N. mening	c 332	19.8	47.1	1225	14	ADM16954	Adm16954 Pinus rad
c 260	20.6	49.0	110000	3	AAA81490_09	Continuation (10 o	c 333	19.8	47.1	1320	2	AAV20948	Aav20948 Coffee-fr
c 261	20.6	49.0	34980	3	AAF21609	Aaf21609 Neisseria	c 334	19.8	47.1	1320	8	ABX13604	Abx13604 Coffee CD
c 262	20.6	49.0	34980	3	AAF21608	Aaf21608 Neisseria	c 335	19.8	47.1	1320	10	ADE94018	Ade94018 Coffee AC
c 263	20.4	48.6	68	4	AAF30665	Aaf30665 Aminohydr	c 336	19.8	47.1	1320	10	ADT46386	Adt46386 Bacterial
264	20.4	48.6	2012	13	ADX11853	Adx11853 Plant ful	c 337	19.8	47.1	14807	10	ADG32806	Adg32806 Human DNA
c 265	20.4	48.6	8573	12	ADO47655	Ado47655 Control o	c 338	19.8	47.1	14807	10	ADG32806	Adg32806 Human DNA
c 266	20.4	48.6	9573	14	AEA21233	Aea21233 T-DNA reg	c 339	19.8	47.1	14807	14	ADV16959	Adv16959 Human pro
c 267	20.4	48.6	9573	14	AEA44198	Aea44198 Thale cre	c 340	19.8	47.1	14807	14	ADU92047	Adu92047 Human PAM
268	20.4	48.6	110000	14	AEA61163_0	Aea61163 Human IGL	c 341	19.8	47.1	14807	14	ADU92047	Adu92047 Human PAM
c 269	20.4	48.6	118935	14	ADZ13136	Adz13136 Murine ca	c 342	19.8	47.1	14910	5	AA84004	Aa84004 DNA encod
270	20.2	48.1	65	2	AAV82643	Aav82643 Oligonucl	c 343	19.8	47.1	21511	14	ACL64738	Ac164738 M. xanthu
271	20.2	48.1	68	2	AAV76998	Aav76998 Chimeric	c 344	19.8	47.1	26059	13	ABD33622	Abd33622 Murine ca
272	20.2	48.1	68	14	ABE17359	Abel17359 Chimeric	c 345	19.8	47.1	125322	13	ABD33622	Abd33622 Murine ca
273	20.2	48.1	68	14	ABE17381	Abel17381 Chimeric	c 346	19.8	47.1	125322	13	ABD33622	Abd33622 Murine ca
274	20.2	48.1	68	14	ABE17384	Abel17384 Chimeric	c 347	19.8	47.1	263744	10	ADF08271	Adf08271 Mouse apo
c 275	20.2	48.1	400	4	AA109462	Aal09462 Human bre	c 348	19.8	47.1	290040	14	ADU92049	Adu92049 Human PAM
c 276	20.2	48.1	466	11	ACN79829	Acn79829 Breast ca	c 349	19.6	46.7	30	12	ADN43244	Adn43244 Brassica
277	20.2	48.1	531	10	ADF79662	Adf79662 Leukaemia	c 350	19.6	46.7	1269	13	ADX12750	Adx12750 Plant ful
278	20.2	48.1	1960	3	AAA67997	Aaa67997 Pinus rad	c 351	19.6	46.7	1347	11	ACL27947	Ac127947 Rice abio
279	20.2	48.1	1960	10	ADA41747	Ada41747 4-coumara	c 352	19.6	46.7	1436	13	ADX51696	Adx51696 Plant ful
280	20.2	48.1	1961	2	AAV23876	Aav23876 Plant 4CL	c 353	19.6	46.7	1580	10	ADD72058	Add72058 Human uri
281	20.2	48.1	1961	2	AAZ06902	Aaz06902 Pine 4-co	c 354	19.6	46.7	2026	14	ADU92049	Adu92049 Human PAM
282	20.2	48.1	1961	3	AAA69581	Aaa69581 Pinus rad	c 355	19.6	46.7	2026	14	ADU92049	Adu92049 Human PAM
283	20.2	48.1	1961	3	AAA67963	Aaa67963 Pinus rad	c 356	19.6	46.7	2028	10	ADE97379	Ade97379 Human IGG
284	20.2	48.1	1961	3	AAA67963	Aaa67963 Pinus rad	c 357	19.6	46.7	2028	14	ADW17823	Adw17823 Human IGG
285	20.2	48.1	1961	10	ADA41713	Ada41713 4-coumara	c 358	19.6	46.7	2029	2	AAQ30909	Aaq30909 pBAG101 i
286	20.2	48.1	2361	3	AAA39476	Aaa39476 Human TNF	c 359	19.6	46.7	2066	13	ADX13561	Adx13561 Plant ful
287	20.2	48.1	2361	10	ADG3574	Adg3574 Human TNF	c 360	19.6	46.7	2138	10	ADD72061	Add72061 Human uri
288	20.2	48.1	2380	10	ADG47642	Adg47642 Human TNF	c 361	19.6	46.7	2560	2	AAQ30910	Aaq30910 pMDR1002
289	20.2	48.1	2380	3	AAA5490	Aaa5490 Human TRA	c 362	19.6	46.7	2667	8	ACA00955	Aca00955 C. glutami
290	20.2	48.1	2380	6	ABK84255	Abk84255 Human cDN	c 363	19.6	46.7	2715	5	AAH66459	Aah66459 C. glutami
291	20.2	48.1	2380	10	ADF76475	Adf76475 Novel hum	c 364	19.6	46.7	2757	14	ADW17843	Adw17843 Human OKT
292	20.2	48.1	2380	13	ADR25323	Adr25323 Breast ca	c 365	19.6	46.7	2845	10	ADD131395	Add131395 C. glutam
293	20.2	48.1	2412	12	ADL22895	Adl22895 Human MP2	c 366	19.6	46.7	2845	10	ADJ87346	Adj87346 DNA repli
294	20.2	48.1	2412	12	ADL22895	Adl22895 Human MP2	c 367	19.6	46.7	4694	4	AAF55225	Aaf55225 Nucleotid
295	20.2	48.1	2412	12	ADL22895	Adl22895 Human PRO	c 368	19.6	46.7	4694	6	ABK85577	Abk85577 Human IGG
296	20.2	48.1	2412	13	ADO19523	Ado19523 Human PRO	c 369	19.6	46.7	10554	14	ADW17849	Adw17849 APEX-3p G
297	20.2	48.1	2412	13	ADP56101	Adp56101 Human PRO	c 370	19.6	46.7	11189	14	ADW17853	Adw17853 APEX-3pMO
298	20.2	48.1	2412	14	ADY15589	Ady15589 DNA encod	c 371	19.6	46.7	30943	12	ADM80034	Adm80034 Spiramyci
299	20.2	48.1	3350	13	ADY19881	Ady19881 DNA encod	c 372	19.6	46.7	30943	12	ADN97550	Adn97550 S. ambotac
300	20.2	48.1	5981	8	ABX63823	Abx63823 Bacterial	c 373	19.6	46.7	32188	5	ABA18472	Abal8472 Human ner
301	20.2	48.1	7874	12	ADO20498	Ado20498 Human PRO	c 374	19.6	46.7	42104	11	ACN44606	Acn44606 Human gen
302	20.2	48.1	10857	8	ACA43714	Aca43714 Prokaryot	c 375	19.6	46.7	44001	4	AAK74850	Aak74850 Human imm
303	20.2	48.1	17170	4	AAK77880	Aak77880 Human imm	c 376	19.6	46.7	63155	10	ADC85996	Adc85996 Human GPC
304	20.2	48.1	17173	4	AAK77881	Aak77881 Human imm	c 377	19.6	46.7	63761	13	ABD33426	Abd33426 Murine ca
305	20	47.6	463	6	ABK63232	Abk63232 Rat seque	c 378	19.6	46.7	122888	6	ABK83569	Abk83569 Human cDN
306	20	47.6	463	13	ADV40608	Adv40608 Rat cardi	c 379	19.4	46.2	349980	5	AAH68528	Aah68528 C. glutami
c 307	20	47.6	765	3	AAAC50425	Aac50425 Arabidops	c 380	19.4	46.2	589	13	AAU54210	Aau54210 Fusarium
c 308	20	47.6	765	3	AAAC50425	Aac50425 Arabidops	c 381	19.4	46.2	589	13	ADU92213	Adu92213 Fusarium
c 309	20	47.6	1057	13	ADX13825	Adx13825 Plant ful	c 382	19.4	46.2	589	13	ADU92213	Adu92213 Fusarium
c 310	20	47.6	1176	13	ADX27329	Adx27329 Plant ful	c 383	19.4	46.2	786	10	ADC77515	Adc77515 Zebrafish
c 311	20	47.6	1178	13	ADX45876	Adx45876 Plant ful	c 384	19.4	46.2	816	4	ABL11677	Ab111677 Drosophil

C 385	19.4	46.2	1412	13	ADS50913	Adg50913 Bacterial	458	19.2	45.7	6540	4	ABL23256	Ab123256 Drosophil
C 386	19.4	46.2	1602	2	AAV60843	AAV60843 Rat acid	C 459	19.2	45.7	6704	13	ADP55321	Adp55321 Human PRO
C 387	19.4	46.2	1602	3	AAZ61201	AAZ61201 CDNA enco	C 460	19.2	45.7	6891	10	ADP82715	Adf82715 Leukaemia
C 388	19.4	46.2	1602	6	AAZ61201	AAZ61201 CDNA enco	C 461	19.2	45.7	7760	13	ADR84369	Adr84369 Aspergill
C 389	19.4	46.2	1602	12	ADN97425	ADN97425 Rat DRASI	C 462	19.2	45.7	12354	4	AAS46267	Aas46267 DNA enco
C 390	19.4	46.2	1719	12	ADN74570	ADN74570 Thale cre	C 463	19.2	45.7	12354	4	AAS46267	Aas46267 DNA enco
C 391	19.4	46.2	1807	13	ADN62356	ADN62356 Plant ful	C 464	19.2	45.7	12354	4	AAS46261	Aas46261 DNA enco
C 392	19.4	46.2	1843	4	ABL12391	ABL12391 Drosophil	C 465	19.2	45.7	42954	11	ACN44470	Acn44470 Human gen
C 393	19.4	46.2	2405	4	ABL11118	ABL11118 Drosophil	C 466	19.2	45.7	45960	11	ACN44272	Acn44272 Mouse gen
C 394	19.4	46.2	2515	10	ADC77516	ADC77516 Zebratfish	C 467	19.2	45.7	51193	13	AEA61136	Aea61136 Human KIA
C 395	19.4	46.2	2616	8	ADA71309	ADA71309 Rice gene	C 468	19.2	45.7	64135	13	ABD33383	Abd33383 Murine ca
C 396	19.4	46.2	2876	4	ABL11676	ABL11676 Drosophil	C 469	19.2	45.7	68497	11	ACN45212	Acn45212 Mouse gen
C 397	19.4	46.2	2886	4	ABL11323	ABL11323 Drosophil	C 470	19.2	45.7	110000	14	ADZ45062	Adz45062 (7 of
C 398	19.4	46.2	3013	4	ABL18722	ABL18722 Drosophil	C 471	19.2	45.7	12923	11	ACN44026	Acn44026 Human gen
C 399	19.4	46.2	3588	4	ABL06015	ABL06015 Drosophil	C 472	19.2	45.7	149612	11	ACN45154	Acn45154 Human gen
C 400	19.4	46.2	5224	4	ABL12990	ABL12990 Drosophil	C 473	19.2	45.7	318	5	AAF65868	Aaf65868 Novel hum
C 401	19.4	46.2	5637	13	ADRO6878	ADRO6878 Full leng	C 474	19.2	45.7	350	4	AAS25079	Aas25079 Human ova
C 402	19.4	46.2	5996	4	ABL06014	ABL06014 Drosophil	C 475	19.2	45.2	393	5	ADL63405	Adl63405 Human ova
C 403	19.4	46.2	10976	13	ABD32650	ABD32650 Human can	C 476	19.2	45.2	409	5	ADL72692	Adl72692 Human ova
C 404	19.4	46.2	11796	8	ABX10231	ABX10231 Human can	C 477	19.2	45.2	409	5	ADL37831	Adl37831 Human ova
C 405	19.4	46.2	11796	10	ADG33785	ADG33785 Human CDN	C 478	19.2	45.2	456	5	AAH83724	Aah83724 Human ova
C 406	19.4	46.2	14117	6	ABL64107	ABL64107 Breast ca	C 479	19.2	45.2	473	5	ADL44215	Adl44215 Human ova
C 407	19.4	46.2	23271	13	ACN37213	ACN37213 Human per	C 480	19.2	45.2	522	6	ABQ59078	Abq59078 Human col
C 408	19.4	46.2	26147	11	ACN44862	ACN44862 Human gen	C 481	19.2	45.2	526	6	ABK39174	Abk39174 CDNA enco
C 409	19.4	46.2	48765	12	ADJ61643	ADJ61643 Concateme	C 482	19.2	45.2	526	8	ACA11503	AcA11503 Human lun
C 410	19.4	46.2	8600	12	ADP68568	ADP68568 Human PPA	C 483	19.2	45.2	526	8	ACA02689	AcA02689 Lung canc
C 411	19.4	46.2	107330	12	ADQ97316	ADQ97316 Mouse can	C 484	19.2	45.2	526	10	ADH46731	Adh46731 Human lun
C 412	19.2	45.7	234	8	ABX40492	ABX40492 Bovine ES	C 485	19.2	45.2	526	13	ADJ20650	Adj20650 Human lun
C 413	19.2	45.7	270	8	ACA35250	ACA35250 Prokaryot	C 486	19.2	45.2	562	6	ABK39139	AbK39139 CDNA enco
C 414	19.2	45.7	357	11	ABD00701	ABD00701 Klebsiell	C 487	19.2	45.2	562	8	ACA11468	AcA11468 Human lun
C 415	19.2	45.7	390	8	ACA29964	ACA29964 Prokaryot	C 488	19.2	45.2	562	8	ACA02654	AcA02654 Lung canc
C 416	19.2	45.7	428	4	ASA223040	ASA223040 DNA enco	C 489	19.2	45.2	562	10	ADH46696	Adh46696 Human lun
C 417	19.2	45.7	435	11	ABD00723	ABD00723 Klebsiell	C 490	19.2	45.2	562	13	ADJ20615	Adj20615 Human lun
C 418	19.2	45.7	449	13	ACF84217	ACF84217 Human SIR	C 491	19.2	45.2	585	6	ABS51610	AbS51610 Human CDN
C 419	19.2	45.7	498	11	ACN92223	ACN92223 Breast ca	C 492	19.2	45.2	605	14	ACLS5519	ACLS5519 Human adi
C 420	19.2	45.7	592	3	AAF14481	AAF14481 Aspergill	C 493	19.2	45.2	636	8	ACA57112	AcA57112 Human cDN
C 421	19.2	45.7	592	13	ADU59522	ADU59522 Aspergill	C 494	19.2	45.2	642	6	ABS51593	AbS51593 Human cDN
C 422	19.2	45.7	592	14	ADZ96525	ADZ96525 Aspergill	C 495	19.2	45.2	654	8	ACA57045	AcA57045 Human adi
C 423	19.2	45.7	725	4	ALU15521	ALU15521 Human bre	C 496	19.2	45.2	657	8	ACA57385	AcA57385 Human adi
C 424	19.2	45.7	730	6	ABQ65532	ABQ65532 Arabidops	C 497	19.2	45.2	680	8	ACA57034	AcA57034 Human adi
C 425	19.2	45.7	758	4	ALU24365	ALU24365 Human bre	C 498	19.2	45.2	700	4	AAH92418	AaH92418 Human inf
C 426	19.2	45.7	839	11	ACN85510	ACN85510 Breast ca	C 499	19.2	45.2	777	8	ACA57301	AcA57301 Human adi
C 427	19.2	45.7	839	11	ACN85510	ACN85510 Breast ca	C 500	19.2	45.2	868	8	ACA57249	AcA57249 Human adi
C 428	19.2	45.7	1155	2	AAZ09784	AAZ09784 E. coli S							
C 429	19.2	45.7	1155	2	AAZ09784	AAZ09784 E. coli S							
C 430	19.2	45.7	1155	4	AAZ09784	AAZ09784 E. coli S							
C 431	19.2	45.7	1155	8	ACA32624	ACA32624 Prokaryot							
C 432	19.2	45.7	1155	13	ADT48800	ADT48800 Bacterial							
C 433	19.2	45.7	1278	13	ADX23061	ADX23061 Plant ful							
C 434	19.2	45.7	1383	11	ABD12593	ABD12593 Pseudomon							
C 435	19.2	45.7	1554	8	ADA69876	ADA69876 Rice gene							
C 436	19.2	45.7	1618	13	ADG61056	ADG61056 Bacterial							
C 437	19.2	45.7	1618	13	ADG61056	ADG61056 Bacterial							
C 438	19.2	45.7	1656	13	ADR85543	ADR85543 Aspergill							
C 439	19.2	45.7	1723	14	AEH67511	AEH67511 Rice geno							
C 440	19.2	45.7	1749	11	ABD12451	ABD12451 Pseudomon							
C 441	19.2	45.7	1760	13	ABD84956	ABD84956 Aspergill							
C 442	19.2	45.7	1988	4	ABL23259	ABL23259 Drosophil							
C 443	19.2	45.7	2577	5	AAZ94403	AAZ94403 DNA enco							
C 444	19.2	45.7	2577	5	AAZ90256	AAZ90256 DNA enco							
C 445	19.2	45.7	2600	11	ADM02891	ADM02891 Human CDN							
C 446	19.2	45.7	2840	4	ABL26812	ABL26812 Drosophil							
C 447	19.2	45.7	2853	5	AAZ85725	AAZ85725 DNA enco							
C 448	19.2	45.7	2911	3	AAZ94751	AAZ94751 Human ATP							
C 449	19.2	45.7	3206	12	ADP90665	ADP90665 Mouse ext							
C 450	19.2	45.7	3720	2	AAZ09790	AAZ09790 Plasmid p							
C 451	19.2	45.7	4045	4	ABL23258	ABL23258 Drosophil							
C 452	19.2	45.7	4975	2	AAZ09792	AAZ09792 Plasmid p							
C 453	19.2	45.7	5568	10	ADF69153	ADF69153 Human MP5							
C 454	19.2	45.7	5572	9	ACF36032	ACF36032 Human Ana							
C 455	19.2	45.7	5572	12	ADG08786	ADG08786 Human Ana							
C 456	19.2	45.7	6027	14	ADV43945	ADV43945 Human psy							
C 457	19.2	45.7	6441	14	ADV43944	ADV43944 Human psy							

ALIGNMENTS

RESULT 1

ABK24750/c

ID ABK24750 standard; DNA; 121 BP.

XX

AC ABK24750;

XX

DT 09-APR-2002 (first entry)

XX

DE Glyphosate resistance conferring genome altering oligonucleotide #110.

Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss;
o-methyl modification; LNA modification; phosphorothioate linkage;
DNA repair; DNA alteration; environmental tolerance; hygromycin-B;
amino acid over production; herbicide resistance; glyphosate resistance;
imidazolinone herbicide resistance; triazine resistance; disease resistance;
porphyric herbicide resistance; modified starch production; waxy starch;
modified oil production; modified starch production; disease resistance;
altered floral morphology; male-sterile plant; albino mutant;
modified fatty acid content; reduced palmitate production; albino plant;
increased stearate production; reduced linolenic acid production;
photosynthetic process.
Hordeum vulgare.
Synthetic.

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 5188.62 Seconds
(without alignments)
378.725 Million cell updates/sec

Title: US-10-805-973-12

Perfect score: 42

Sequence: 1 cagtgctgctatgatcc.....acgggtgtgtttcaaggac 42

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 41078325 segs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:*

1: gb_est1.*

2: gb_est2.*

3: gb_est3.*

4: gb_est4.*

5: gb_est5.*

6: gb_est6.*

7: gb_est7.*

8: gb_est8.*

9: gb_est9.*

10: gb_est10.*

11: gb_est11.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	40.4	96.2	367	5	BQ762109 EBP101.SQ
2	40.4	96.2	420	1	AJ475726
3	40.4	96.2	429	5	BQ762109 EBP101.SQ
4	40.4	96.2	462	8	CK629678 GCM003B24
5	40.4	96.2	485	6	CA721426 wdk9n.pk0
6	40.4	96.2	517	5	CA012924 HT06N21r
7	40.4	96.2	528	1	AV942818
8	40.4	96.2	530	2	BE417248
9	40.4	96.2	536	6	CA735255
10	40.4	96.2	543	5	BU985874
11	40.4	96.2	560	6	CA735222
12	40.4	96.2	568	5	CA001228
13	40.4	96.2	568	5	CA001528
14	40.4	96.2	614	5	BU985646
15	40.4	96.2	615	1	AV936190
16	40.4	96.2	620	7	CV057250
17	40.4	96.2	625	3	BJ468205
18	40.4	96.2	623	7	CV058653
19	40.4	96.2	670	3	BU296872
20	40.4	96.2	672	3	BU465087
21	40.4	96.2	674	8	DN179983
22	40.4	96.2	678	1	AV945607

DN186674	700	96.2	40.4	C 23	DN186674
CK157744	894	96.2	40.4	C 24	CK157744
CK166638	1147	96.2	40.4	C 25	CK166638
CK167615	1149	96.2	40.4	C 26	CK167615
CK167307	1160	96.2	40.4	C 27	CK167307
CK168204	1198	96.2	40.4	C 28	CK168204
CA703794	396	93.8	39.4	C 29	CA703794
AU089907	443	93.8	39.4	C 30	AU089907
CK158704	906	93.8	39.4	C 31	CK158704
CA741112	492	92.4	38.8	C 32	CA741112
AJ610886	526	92.4	38.8	C 33	AJ610886
BU218387	593	92.4	38.8	C 34	BU218387
CN010201	613	92.4	38.8	C 35	CN010201
BG905270	664	92.4	38.8	C 36	BG905270
CK168204	696	92.4	38.8	C 37	CK168204
BM137990	727	92.4	38.8	C 38	BM137990
BJ220643	727	92.4	38.8	C 39	BJ220643
CK155817	879	92.4	38.8	C 40	CK155817
CK156269	879	92.4	38.8	C 41	CK156269
AV934678	273	90.0	37.8	C 42	AV934678
BF200418	460	88.6	37.2	C 43	BF200418
CD453275	721	88.6	37.2	C 44	CD453275
CN820002	570	84.8	35.6	C 45	CN820002
CK264732	676	84.8	35.6	C 46	CK264732
CN819919	780	81.0	34.0	C 47	CN819919
CZ694312	820	77.1	32.4	C 48	CZ694312
CF576878	518	78.6	33.3	C 49	CF576878
CA228285	802	78.6	33.3	C 50	CA228285
CV292554	898	78.6	33.3	C 51	CV292554
CV291176	910	77.1	32.4	C 52	CV291176
C28005	446	77.1	32.4	C 53	C28005
AU172494	463	77.1	32.4	C 54	AU172494
CK036599	554	77.1	32.4	C 55	CK036599
CK102310	559	77.1	32.4	C 56	CK102310
CK040671	601	77.1	32.4	C 57	CK040671
CK037714	617	77.1	32.4	C 58	CK037714
CB656902	706	77.1	32.4	C 59	CB656902
AU162002	708	77.1	32.4	C 60	AU162002
CB630252	711	77.1	32.4	C 61	CB630252
CB683493	816	77.1	32.4	C 62	CB683493
CZ671547	855	77.1	32.4	C 63	CZ671547
CZ134246	897	77.1	32.4	C 64	CZ134246
CL967368	1935	77.1	32.4	C 65	CL967368
CF046041	165	74.8	31.4	C 66	CF046041
CF047097	165	74.8	31.4	C 67	CF047097
BE638205	359	74.8	31.4	C 68	BE638205
CD932175	380	74.8	31.4	C 69	CD932175
AW651554	385	74.8	31.4	C 70	AW651554
AI942110	397	74.8	31.4	C 71	AI942110
AW054309	398	74.8	31.4	C 72	AW054309
CF051338	399	74.8	31.4	C 73	CF051338
CD572887	403	74.8	31.4	C 74	CD572887
AW165578	406	74.8	31.4	C 75	AW165578
CA399158	418	74.8	31.4	C 76	CA399158
AW179434	445	74.8	31.4	C 77	AW179434
AI586411	461	74.8	31.4	C 78	AI586411
CD573366	461	74.8	31.4	C 79	CD573366
BM378794	466	74.8	31.4	C 80	BM378794
CM484597	475	74.8	31.4	C 81	CM484597
AI664983	488	74.8	31.4	C 82	AI664983
BE592668	489	74.8	31.4	C 83	BE592668
AW651573	492	74.8	31.4	C 84	AW651573
AW056264	501	74.8	31.4	C 85	AW056264
AW331654	502	74.8	31.4	C 86	AW331654
CA398508	506	74.8	31.4	C 87	CA398508
CD573025	516	74.8	31.4	C 88	CD573025
AI714835	524	74.8	31.4	C 89	AI714835
CD433156	529	74.8	31.4	C 90	CD433156
CA400973	530	74.8	31.4	C 91	CA400973
AI676970	533	74.8	31.4	C 92	AI676970
BM330609	558	74.8	31.4	C 93	BM330609
CD448537	569	74.8	31.4	C 94	CD448537
AI673901	581	74.8	31.4	C 95	AI673901
AI665367	582	74.8	31.4	C 96	AI665367

c 96	31.4	74.8	596	6	CD448254	CD448254 EK07D2305	169	29.8	71.0	562	6	CD991301	CD991301 QBA102a10
c 97	31.4	74.8	603	9	A2920691	A2920691 1006021B0	170	29.8	71.0	595	7	CN927803	CN927803 000530AEP
c 98	31.4	74.8	608	1	A1643964	A1643964 486099H10	c 171	29.8	71.0	621	3	BM403819	BM403819 EST578146
c 99	31.4	74.8	615	8	DN586540	DN586540 EST6531 Z	c 172	29.8	71.0	649	8	DR990193	DR990193 Mdl1-70031
c 100	31.4	74.8	619	2	BG267097	BG267097 1000111C0	c 173	29.8	71.0	688	8	DR995295	DR995295 Mda99008N
c 101	31.4	74.8	623	4	AV111601	AV111601 Zea mays	c 174	29.8	71.0	708	8	BG594006	BG594006 EST492684
c 102	31.4	74.8	624	7	C0381349	C0381349 FRA0878 S	c 175	29.8	71.0	708	5	CK276091	CK276091 EST722169
c 103	31.4	74.8	629	6	CD425542	CD425542 SAI_13_B0	c 176	29.8	71.0	775	5	BQ508270	BQ508270 EST615685
c 104	31.4	74.8	630	1	AW564249	AW564249 LGL_283_G	c 177	29.8	71.0	860	8	DN980226	DN980226 SV6_23G12
c 105	31.4	74.8	636	6	CF073461	CF073461 FBI_10_E1	c 178	29.8	71.0	907	7	CK266883	CK266883 EST712961
c 106	31.4	74.8	638	6	CF022127	CF022127 QBQ06f10	c 179	29.8	71.0	154	2	B1125879	B1125879 1067P30P
c 107	31.4	74.8	648	1	AI677107	AI677107 605049F08	c 180	28.2	67.1	275	7	CV651183	CV651183 60233.1 L
c 108	31.4	74.8	648	6	CF627002	CF627002 zmr-ws05 O	c 181	28.2	67.1	432	7	CK095055	CK095055 1067P30.3
c 109	31.4	74.8	651	2	BG356377	BG356377 EM1_21_G0	c 182	28.2	67.1	441	6	CD668243	CD668243 eealc_pk0
c 110	31.4	74.8	684	6	DN221171	DN221171 CCG1_74_F	c 183	28.2	67.1	465	3	BM060537	BM060537 KS01015F0
c 111	31.4	74.8	686	6	DN215004	DN215004 MEST906_C	c 184	28.2	67.1	466	7	CV049970	CV049970 EST_9425
c 112	31.4	74.8	692	8	DR796514	DR796514 ZM_BFB001	c 185	28.2	67.1	468	7	CK105002	CK105002 1067P30.5
c 113	31.4	74.8	695	6	CD425934	CD425934 SAI_15_B0	c 186	28.2	67.1	484	7	CK105002	CK105002 PtaXM0005
c 114	31.4	74.8	697	6	CD002275	CD002275 EST0281_N	c 187	28.2	67.1	542	6	CF227820	CF227820 PtaXM0005
c 115	31.4	74.8	707	6	CD444856	CD444856 EL01N0444	c 188	28.2	67.1	564	8	DN619881	DN619881 UCRCS01_0
c 116	31.4	74.8	711	6	CA402278	CA402278 EL01N0434	c 189	28.2	67.1	566	7	CN188923	CN188923 UCRCS06_0
c 117	31.4	74.8	711	6	CD444264	CD444264 EL01N0437	c 190	28.2	67.1	575	6	CA824025	CA824025 R35804_5w
c 118	31.4	74.8	713	6	CB347071	CB347071 CAB2SG000	c 191	28.2	67.1	585	5	B0869375	B0869375 M129D03_P
c 119	31.4	74.8	715	6	CA401806	CA401806 EL01N0426	c 192	28.2	67.1	595	7	CN184453	CN184453 UCRCS04_0
c 120	31.4	74.8	718	8	DN211329	DN211329 MEST923_E	c 193	28.2	67.1	610	8	DN620592	DN620592 UCRCS11_0
c 121	31.4	74.8	719	6	CA402947	CA402947 EL01N0444	c 194	28.2	67.1	619	8	CK292081	CK292081 C04010C06
c 122	31.4	74.8	719	8	DN225678	DN225678 MEST1178	c 195	28.2	67.1	630	5	BQ415724	BQ415724 GA_Ed010
c 123	31.4	74.8	725	10	CG100617	CG100617 PUFOF10TB	c 196	28.2	67.1	630	7	CN185745	CN185745 UCRCS05_0
c 124	31.4	74.8	725	10	CG100620	CG100620 PUFOF10TD	c 197	28.2	67.1	630	7	CO105130	CO105130 GR_EB003
c 125	31.4	74.8	730	8	DR959254	DR959254 ZM_BFB007	c 198	28.2	67.1	631	7	CV238240	CV238240 WS0125_B2
c 126	31.4	74.8	731	9	CG637631	CG637631 OGFT59TH	c 199	28.2	67.1	643	7	CN189479	CN189479 UCRCS06_0
c 127	31.4	74.8	765	7	CK720583	CK720583 LEBG101E0	c 200	28.2	67.1	650	7	CV709302	CV709302 UCRPT01_0
c 128	31.4	74.8	770	8	DN217229	DN217229 MEST1048_	c 201	28.2	67.1	655	8	DN625008	DN625008 UCRCA01_0
c 129	31.4	74.8	775	6	CB979005	CB979005 CAB40006_	c 202	28.2	67.1	662	8	CB185068	CB185068 KS0423877
c 130	31.4	74.8	801	9	CG664967	CG664967 OGJBG46TV	c 203	28.2	67.1	662	8	DR064694	DR064694 1p85608_9
c 131	31.4	74.8	803	6	CB978934	CB978934 CAB40006_	c 204	28.2	67.1	674	7	CO072490	CO072490 GR_EA31L
c 132	31.4	74.8	829	2	BG320234	BG320234 Zm03_03h0	c 205	28.2	67.1	682	7	CF834186	CF834186 UCRCS02_0
c 133	31.4	74.8	862	6	CF210611	CF210611 CAB20006_	c 206	28.2	67.1	683	8	DN942154	DN942154 568.3 Tub
c 134	31.4	74.8	886	10	CG436261	CG436261 OGSEA32TV	c 207	28.2	67.1	685	8	DR404228	DR404228 CSAG-PNP1
c 135	31.4	74.8	896	8	DR732290	DR732290 FGAS07821	c 208	28.2	67.1	691	7	CV704723	CV704723 UCRPT01_0
c 136	31.4	74.8	903	6	CD46738	CD46738 EL01T0206	c 209	28.2	67.1	695	6	CB820099	CB820099 EST_1091
c 137	31.4	74.8	926	6	CF210526	CF210526 CAB20006_	c 210	28.2	67.1	705	7	CO115154	CO115154 GR_EB016
c 138	31.4	74.8	2673	4	AV109387	AV109387 Zea mays	c 211	28.2	67.1	724	1	AJ833555	AJ833555 AJ833555
c 139	30.8	73.3	526	6	CA646258	CA646258 wreln_pk0	c 212	28.2	67.1	724	7	CV711180	CV711180 UCRPT01_0
c 140	30.8	73.3	727	10	CL748539	CL748539 OR_EBA011	c 213	28.2	67.1	745	8	CX542911	CX542911 UCRPT01_5
c 141	30.8	73.4	1989	8	DN206827	DN206827 MEST839_G	c 214	28.2	67.1	749	7	CF834188	CF834188 UCRCS02_0
c 142	30.4	72.4	657	8	CV290995	CV290995 aof01-16m	c 215	28.2	67.1	768	7	CV708672	CV708672 UCRPT01_0
c 143	30.4	72.4	853	7	CV290995	CV290995 aof01-16m	c 216	28.2	67.1	769	7	CV708672	CV708672 UCRPT01_0
c 144	30.4	72.4	931	7	CV290995	CV290995 aof01-16m	c 217	28.2	67.1	774	7	CV708672	CV708672 UCRPT01_0
c 145	29.8	71.0	353	7	CO868106	CO868106 Mdfct3040	c 218	28.2	67.1	806	7	CF834187	CF834187 UCRCS02_0
c 146	29.8	71.0	366	7	CV475944	CV475944 24469.1 D	c 219	28.2	67.1	820	7	CF834187	CF834187 UCRCS02_0
c 147	29.8	71.0	368	3	BM328450	BM328450 PIC1_29_D	c 220	28.2	67.1	829	7	CF829334	CF829334 UCRCA01_0
c 148	29.8	71.0	368	8	DR998613	DR998613 MdfB0071	c 221	28.2	67.1	829	7	CV282040	CV282040 WS0183_B2
c 149	29.8	71.0	401	8	DN590383	DN590383 91279.1 L	c 222	28.2	67.1	861	8	CX666319	CX666319 UCRCP01_0
c 150	29.8	71.0	415	7	CN580930	CN580930 Mdfw2030P	c 223	28.2	67.1	864	8	CX667530	CX667530 UCRCP01_0
c 151	29.8	71.0	446	7	CO068527	CO068527 Mdfct3030	c 224	28.2	67.1	890	8	CX545743	CX545743 UCRPT01_5
c 152	29.8	71.0	446	7	CO068527	CO068527 Mdfct3033	c 225	27.8	66.2	523	9	BZ622615	BZ622615 1g79e07_9
c 153	29.8	71.0	461	7	CV928137	CV928137 000531AEP	c 226	26.8	63.8	604	6	CA293769	CA293769 SCSEGV100
c 154	29.8	71.0	481	6	CB346991	CB346991 CAB2SG000	c 227	26.6	63.3	227	1	AV815620	AV815620 AV815620
c 155	29.8	71.0	502	7	CV005931	CV005931 csa02-2ms	c 228	26.6	63.3	249	5	B0829736	B0829736 K047P21P
c 156	29.8	71.0	504	6	CA836461	CA836461 MCU007E10	c 229	26.6	63.3	326	7	CK765845	CK765845 aam01-2ms
c 157	29.8	71.0	507	6	CA836461	CA836461 MCU001C03	c 230	26.6	63.3	344	3	BP628884	BP628884 BP628884
c 158	29.8	71.0	507	6	CA836461	CA836461 MCU004C08	c 231	26.6	63.3	356	3	BP525659	BP525659 BP525659
c 159	29.8	71.0	507	6	CA836461	CA836461 MCU005H05	c 232	26.6	63.3	359	1	AV561153	AV561153 AV561153
c 160	29.8	71.0	507	6	CA836462	CA836462 MCU007B10	c 233	26.6	63.3	372	3	BP635051	BP635051 BP635051
c 161	29.8	71.0	507	6	CA836462	CA836462 MCU008F07	c 234	26.6	63.3	375	1	AV815766	AV815766 AV815766
c 162	29.8	71.0	507	6	CA836463	CA836463 MCU009F02	c 235	26.6	63.3	379	1	AV804504	AV804504 AV804504
c 163	29.8	71.0	507	6	CA836463	CA836463 MCU011C11	c 236	26.6	63.3	383	5	B0828530	B0828530 K024P71P
c 164	29.8	71.0	507	6	CA836463	CA836463 MCU012G09	c 237	26.6	63.3	385	1	AV815946	AV815946 AV815946
c 165	29.8	71.0	507	6	CA836463	CA836463 MCU012H03	c 238	26.6	63.3	390	3	BP639573	BP639573 BP639573
c 166	29.8	71.0	507	6	CB543998	CB543998 MCU017B03	c 239	26.6	63.3	392	3	BP600387	BP600387 BP600387
c 167	29.8	71.0	525	7	CN928155	CN928155 000531AEP	c 240	26.6	63.3	392	3	BP609300	BP609300 BP609300
c 168	29.8	71.0	545	6	CA836281	CA836281 MCU005E12	c 241	26.6	63.3	395	3	BP664966	BP664966 BP664966

C 242	26.6	63.3	396	3	BP639038	BP639038	C 315	26	61.9	714	2	BG857062	BG857062	1024049F1
C 243	26.6	63.3	399	1	AV820432	AV820432	C 316	26	61.9	718	2	BG851881	BG851881	1024032F0
C 244	26.6	63.3	398	1	AV558823	AV558823	C 317	25.2	60.0	892	8	DR732145	DR732145	FGA507806
C 245	26.6	63.3	400	3	BP526165	BP526165	C 318	25	59.5	266	3	BP137276	BP137276	BP137276
C 246	26.6	63.3	403	1	AV800385	AV800385	C 319	25	59.5	290	2	BG625867	BG625867	CC-ebf1cL
C 247	26.6	63.3	403	1	AV806330	AV806330	C 320	25	59.5	338	6	CD002471	CD002471	EST0500 N
C 248	26.6	63.3	403	6	CB262301	66-E97777-	C 321	25	59.5	351	3	BP135618	BP135618	BP135618
C 249	26.6	63.3	404	1	AV813612	AV813612	C 322	25	59.5	351	3	BP137051	BP137051	BP137051
C 250	26.6	63.3	405	1	AV814504	AV814504	C 323	25	59.5	358	3	BG734571	BG734571	CC-ebf1cL
C 251	26.6	63.3	406	3	BP588976	BP588976	C 324	25	59.5	375	3	BP527351	BP527351	BP527351
C 252	26.6	63.3	407	3	BP582353	BP582353	C 325	25	59.5	381	3	BP132534	BP132534	BP132534
C 253	26.6	63.3	410	3	BP784977	BP784977	C 326	25	59.5	395	1	AV806433	AV806433	AV806433
C 254	26.6	63.3	411	1	AV810076	AV810076	C 327	25	59.5	397	1	AV807965	AV807965	AV807965
C 255	26.6	63.3	411	3	BP575066	BP575066	C 328	25	59.5	407	1	AV785780	AV785780	AV785780
C 256	26.6	63.3	412	1	AV802206	AV802206	C 329	25	59.5	437	3	BP575244	BP575244	BP575244
C 257	26.6	63.3	415	7	CV518281	0089P0010	C 330	25	59.5	440	3	BP595464	BP595464	BP595464
C 258	26.6	63.3	416	1	AV799766	AV799766	C 331	25	59.5	443	7	CN741392	CN741392	SAL_US004
C 259	26.6	63.3	420	3	BP591640	BP591640	C 332	25	59.5	450	8	DR575300	DR575300	WS00740.C
C 260	26.6	63.3	421	1	AV799177	AV799177	C 333	25	59.5	461	1	AI771599	AI771599	EST252699
C 261	26.6	63.3	421	3	BP781517	BP781517	C 334	25	59.5	479	3	BP890459	BP890459	BP890459
C 262	26.6	63.3	424	3	BP594131	BP594131	C 335	25	59.5	482	7	CV500307	CV500307	CV500307
C 263	26.6	63.3	426	3	BP612534	BP612534	C 336	25	59.5	483	3	BP891482	BP891482	BP891482
C 264	26.6	63.3	428	3	BP794161	BP794161	C 337	25	59.5	486	3	BP897073	BP897073	BP897073
C 265	26.6	63.3	433	3	BP584750	BP584750	C 338	25	59.5	488	7	CO224456	CO224456	WS01021.B
C 266	26.6	63.3	434	3	BP564014	BP564014	C 339	25	59.5	494	6	CD003072	CD003072	EST1132 N
C 267	26.6	63.3	434	3	BP589493	BP589493	C 340	25	59.5	499	7	CO086439	CO086439	GR_EB04G
C 268	26.6	63.3	434	3	BP666379	BP666379	C 341	25	59.5	504	8	DR589636	DR589636	WS00826.B
C 269	26.6	63.3	437	8	DN773480	E1121 [C1	C 342	25	59.5	545	7	CN640384	CN640384	268D09_55
C 270	26.6	63.3	443	1	BP607174	BP607174	C 343	25	59.5	565	7	CO214540	CO214540	WS00928.B
C 271	26.6	63.3	447	1	AV544678	AV544678	C 344	25	59.5	634	3	BI422702	BI422702	EST533368
C 272	26.6	63.3	449	3	BP581704	BP581704	C 345	25	59.5	665	7	CO108687	CO108687	GR_EB004
C 273	26.6	63.3	454	3	BP581739	BP581739	C 346	25	59.5	673	7	CK288860	CK288860	EST751582
C 274	26.6	63.3	455	3	BP592602	BP592602	C 347	25	59.5	704	8	DR520958	DR520958	WS0278 BR
C 275	26.6	63.3	455	8	CK044447	UCRCS07_1	C 348	25	59.5	705	7	CK269951	CK269951	EST716029
C 276	26.6	63.3	456	3	BP597091	BP597091	C 349	25	59.5	716	8	DR539024	DR539024	WS0278 B2
C 277	26.6	63.3	477	1	AV441265	AV441265	C 350	25	59.5	753	7	CO107899	CO107899	GR_EB003
C 278	26.6	63.3	523	1	AV541212	AV541212	C 351	25	59.5	763	8	DR508226	DR508226	WS02721.B
C 279	26.6	63.3	525	10	AL765106	Arabicidops	C 352	25	59.5	772	7	CO107822	CO107822	GR_EB003
C 280	26.6	63.3	529	8	CK305069	CK305069	C 353	25	59.5	780	7	CO123195	CO123195	GR_EB05D
C 281	26.6	63.3	538	1	AV540418	AV540418	C 354	25	59.5	787	7	CO239745	CO239745	WS0076 B2
C 282	26.6	63.3	571	5	BQ846849	BQ846849	C 355	25	59.5	857	8	DR515361	DR515361	WS02740.C
C 283	26.6	63.3	589	1	AV543592	AV543592	C 356	25	59.5	857	8	DR505895	DR505895	WS02715.B
C 284	26.6	63.3	591	8	DN775123	DN775123	C 357	24.8	59.0	917	11	CNS040Q8T	CNS040Q8T	AL302294 Tetraodon
C 285	26.6	63.3	596	6	CB261978	7015-E8880-	C 358	24.4	58.1	405	3	BP134194	BP134194	BP134194
C 286	26.6	63.3	605	1	AI998757	701546821	C 359	24.4	58.1	500	2	BE129450	BE129450	894023C08
C 287	26.6	63.3	630	7	CV2730853	24RDBNH U	C 360	24	57.1	640	7	CK313563	CK313563	SB02038A1
C 288	26.6	63.3	642	9	BH510816	BH510816	C 361	24	57.1	750	7	CK312167	CK312167	SB02011A1
C 289	26.6	63.3	680	8	DN238614	DN238614	C 362	23.8	56.7	658	2	BF645529	BF645529	NF023A04E
C 290	26.6	63.3	686	8	CK189179	77-E02450	C 363	23.8	56.7	668	5	BU040864	BU040864	PP_LEA000
C 291	26.6	63.3	697	7	CV278074	WS0145_B2	C 364	23.8	56.7	1018	7	CF881353	CF881353	tr1c026exp
C 292	26.6	63.3	707	7	CV278074	WS0251_B2	C 365	23.6	56.2	260	2	BG625873	BG625873	CC-ebf1cL
C 293	26.6	63.3	772	7	CF834185	CF834185	C 366	23.6	56.2	334	2	BG628326	BG628326	CC-ebf1cL
C 294	26.6	63.3	824	2	BB037543	BB037543	C 367	23.6	56.2	715	2	BF135307	BF135307	601781985
C 295	26.6	63.3	845	7	CV265191	WS02026_B	C 368	23.4	55.7	123	6	CD860678	CD860678	TE_005108
C 296	26.6	63.3	1037	6	CA794724	Cac BL 10	C 369	23.4	55.7	237	3	BP130508	BP130508	BP130508
C 297	26.4	62.9	438	1	AU089946	AU089946	C 370	23.4	55.7	327	1	AV419029	AV419029	AV419029
C 298	26	61.9	465	3	BM000797	1024114B0	C 371	23.4	55.7	334	10	CG535249	CG535249	OST122232
C 299	26	61.9	504	3	BM000797	1031091C0	C 372	23.4	55.7	338	6	CD851280	CD851280	DH0ALL10Z
C 300	26	61.9	509	3	BI531492	BI531492	C 373	23.4	55.7	340	1	AJ828880	AJ828880	AJ828880
C 301	26	61.9	541	1	AV390968	AV390968	C 374	23.4	55.7	346	3	BP136307	BP136307	BP136307
C 302	26	61.9	585	3	BI727283	BI727283	C 375	23.4	55.7	390	6	CD851082	CD851082	DH0AL62A0
C 303	26	61.9	588	3	BI721578	BI721578	C 376	23.4	55.7	435	6	CF392952	CF392952	RTDR3_18
C 304	26	61.9	592	3	BI998372	BI998372	C 377	23.4	55.7	441	3	BP028895	BP028895	BP028895
C 305	26	61.9	617	3	BI721577	BI721577	C 378	23.4	55.7	454	2	BE187324	BE187324	XXNV_162
C 306	26	61.9	629	1	AI799130	AI799130	C 379	23.4	55.7	508	3	BP038820	BP038820	BP038820
C 307	26	61.9	645	3	BI724090	BI724090	C 380	23.4	55.7	510	1	AU299857	AU299857	AU299857
C 308	26	61.9	651	1	AJ802506	AJ802506	C 381	23.4	55.7	516	3	BP036024	BP036024	BP036024
C 309	26	61.9	654	3	BI785002	BI785002	C 382	23.4	55.7	521	1	AU085311	AU085311	AU085311
C 310	26	61.9	656	2	BG854747	BG854747	C 383	23.4	55.7	522	3	BJ605520	BJ605520	BJ605520
C 311	26	61.9	662	2	BG857063	BG857063	C 384	23.4	55.7	542	5	BQ65970	BQ65970	BQ65970
C 312	26	61.9	669	2	BG854406	BG854406	C 385	23.4	55.7	554	7	CO175624	CO175624	QHD23124_A
C 313	26	61.9	671	2	BG854745	BG854745	C 386	23.4	55.7	555	3	BX255650	BX255650	BX255650
C 314	26	61.9	673	2	BG851880	BG851880	C 387	23.4	55.7	565	3	BJ171134	BJ171134	BJ171134

C 388	23.4	55.7	571	3	BJ588688	BJ588688	BJ588688	461	22.6	53.8	657	5	BU479777	603842460
C 389	23.4	55.7	591	3	BQ039540	BQ039540	BQ039540	462	22.6	53.8	667	5	BU251084	603402386
C 390	23.4	55.7	598	3	BJ595497	BJ595497	BJ595497	463	22.6	53.8	681	7	CO144403	EST839074
C 391	23.4	55.7	601	5	BU016897	QHE14F03	BU016897	464	22.6	53.8	714	10	CL838248	OR_CBA006
C 392	23.4	55.7	606	3	BJ589453	BJ589453	BJ589453	465	22.6	53.8	726	6	CF251131	esaa021.c0
C 393	23.4	55.7	636	3	BJ584353	BJ584353	BJ584353	466	22.6	53.8	742	5	BU318263	603851566
C 394	23.4	55.7	664	3	BJ609032	BJ609032	BJ609032	467	22.6	53.8	749	5	BU386329	603581884
C 395	23.4	55.7	667	7	CO159689	FLD1_15_D	CO159689	468	22.6	53.8	750	5	BU271213	60371213
C 396	23.4	55.7	673	3	BU167780	BU167780	BU167780	469	22.6	53.8	774	8	DR032364	bda020260
C 397	23.4	55.7	684	3	BJ589928	BJ589928	BJ589928	470	22.6	53.8	774	5	BU327691	603495407
C 398	23.4	55.7	686	6	CF390120	RTDR2_12	CF390120	471	22.6	53.8	778	5	BU331201	603869353
C 399	23.4	55.7	689	3	BJ600868	BJ600868	BJ600868	472	22.6	53.8	778	7	CN229504	RJB072C11
C 400	23.4	55.7	694	3	BJ608587	BJ608587	BJ608587	473	22.6	53.8	795	5	BU355480	603474296
C 401	23.4	55.7	694	3	BJ595153	BJ595153	BJ595153	474	22.6	53.8	807	5	BU256791	603415392
C 402	23.4	55.7	695	3	BU584960	BU584960	BU584960	475	22.6	53.8	812	5	BU486693	604127510
C 403	23.4	55.7	695	8	DR025155	STRS1_69	DR025155	476	22.6	53.8	826	8	DR028050	bda010034
C 404	23.4	55.7	701	6	CF470926	FTDS1_15	CF470926	477	22.6	53.8	829	5	BU336072	603871120
C 405	23.4	55.7	722	7	CO166588	FLD1_63_D	CO166588	478	22.6	53.8	847	5	BU105425	603005591
C 406	23.4	55.7	748	8	DR110940	RHS1_14_E	DR110940	479	22.6	53.8	870	5	BU216410	603106514
C 407	23.4	55.7	750	5	BQ914288	BQ914288	BQ914288	480	22.6	53.8	887	5	BU473371	603365601
C 408	23.4	55.7	751	3	BU954530	BU954530	BU954530	481	22.6	53.8	915	5	BU354609	603472947
C 409	23.4	55.7	761	7	CO169266	NDL1_5_G0	CO169266	482	22.6	53.8	998	5	BU321375	603849427
C 410	23.4	55.7	780	8	DR468367	WS00944_B	DR468367	483	22.6	53.8	1027	5	BU412469	603154943
C 411	23.4	55.7	785	8	DR468367	WS00944_B	DR468367	484	22.6	53.8	1265	8	CX113054	EX1079L06
C 412	23.4	55.7	791	6	CB320703	AGENCOURT	CB320703	485	22.4	53.3	297	8	R77429	Y122h08.g1
C 413	23.4	55.7	801	8	DR024891	STRS1_68	DR024891	486	22.4	53.3	349	10	CG535305	OST122292
C 414	23.4	55.7	805	8	DR025069	STRS1_69	DR025069	487	22.4	53.3	356	3	BP526404	BP526404
C 415	23.4	55.7	808	8	DR024972	STRS1_68	DR024972	488	22.4	53.3	631	3	BU589462	BU589462
C 416	23.4	55.7	808	8	DR100582	STRS1_65	DR100582	489	22.4	53.3	689	8	DR402013	TKN078A04
C 417	23.4	55.7	869	8	CRK46530	COLD1_9_H	CRK46530	490	22.4	53.3	692	8	DR400328	TKN057C02
C 418	23.2	55.2	257	1	BB064793	BB064793	BB064793	491	22.4	53.3	696	5	BU308899	603539342
C 419	23.2	55.2	276	1	AV361727	AV361727	AV361727	492	22.4	53.3	701	9	CC827964	CC827964
C 420	23.2	55.2	320	1	BL155107	BL155107	BL155107	493	22.4	53.3	754	9	CC688335	CC688335
C 421	23.2	55.2	338	5	BY540071	BY540071	BY540071	494	22.4	53.3	828	11	CR056510	CR056510
C 422	23.2	55.2	358	5	BY459988	BY459988	BY459988	495	22.2	52.9	356	5	BY400134	BY400134
C 423	23.2	55.2	415	5	BY391400	BY391400	BY391400	496	22.2	52.9	379	5	BY566734	BY566734
C 424	23.2	55.2	416	5	BY553013	BY553013	BY553013	497	22.2	52.9	549	5	BU238162	Ds01_12h0
C 425	23.2	55.2	442	3	BP611894	BP611894	BP611894	498	22.2	52.9	596	10	CZ347067	ZMWB0121
C 426	23.2	55.2	600	8	DN382239	LI38534	DN382239	499	22.2	52.9	681	9	AZ874354	2M0188X21
C 427	23.2	55.2	637	8	DR742704	RTCU1_6_A	DR742704	500	22.2	52.9	734	1	AU805698	AJ805698
C 428	23.2	55.2	637	8	DR742704	RTCU1_6_A	DR742704	500	22.2	52.9	734	1	AU805698	AJ805698
C 429	23.2	55.2	367	6	CF058238	OC06508_Y	CF058238	501	22.2	52.9	367	6	CF058238	OC06508_Y
C 430	23.2	55.2	375	1	AM962024	NF051E11S	AM962024	502	22.2	52.9	375	1	AM962024	NF051E11S
C 431	23.2	55.2	444	2	BE999218	EST430941	BE999218	503	22.2	52.9	444	2	BE999218	EST430941
C 432	23.2	55.2	459	1	AL371060	MTBA41F04	AL371060	504	22.2	52.9	459	1	AL371060	MTBA41F04
C 433	23.2	55.2	613	6	CA610458	wrl.pk011	CA610458	505	22.2	52.9	613	6	CA610458	wrl.pk011
C 434	23.2	55.2	620	8	CX534192	s13GNFOTE	CX534192	506	22.2	52.9	620	8	CX534192	s13GNFOTE
C 435	23.2	55.2	673	1	AM689365	NF018D05S	AM689365	507	22.2	52.9	673	1	AM689365	NF018D05S
C 436	23.2	55.2	704	10	CZ823362	CZ823362	CZ823362	508	22.2	52.9	704	10	CZ823362	CZ823362
C 437	23.2	55.2	830	9	BZ273207	CH230-316	BZ273207	509	22.2	52.9	830	9	BZ273207	CH230-316
C 438	23.2	55.2	449	3	BP568801	BP568801	BP568801	510	22.2	52.9	449	3	BP568801	BP568801
C 439	23.2	55.2	661	1	AJ920936	AJ920936	AJ920936	511	22.2	52.9	661	1	AJ920936	AJ920936
C 440	23.2	55.2	708	2	BG440831	GA_Ea001	BG440831	512	22.2	52.9	708	2	BG440831	GA_Ea001
C 441	23.2	55.2	781	7	CR023300	CR023300	CR023300	513	22.2	52.9	781	7	CR023300	CR023300
C 442	23.2	55.2	822	11	CR822390	GROAA52A	CR822390	514	22.2	52.9	822	11	CR822390	GROAA52A
C 443	23.2	55.2	938	10	CZ991254	CZ991254	CZ991254	515	22.2	52.9	938	10	CZ991254	CZ991254
C 444	23.2	55.2	966	10	CZ942091	CZ942091	CZ942091	516	22.2	52.9	966	10	CZ942091	CZ942091
C 445	23.2	55.2	970	10	CZ951777	CZ951777	CZ951777	517	22.2	52.9	970	10	CZ951777	CZ951777
C 446	23.2	55.2	214	1	AL587995	AL587995	AL587995	518	22.2	52.9	214	1	AL587995	AL587995
C 447	23.2	55.2	427	5	BU258070	BU258070	BU258070	519	22.2	52.9	427	5	BU258070	BU258070
C 448	23.2	55.2	478	7	CV039783	4137196 B	CV039783	520	22.2	52.9	478	7	CV039783	4137196 B
C 449	23.2	55.2	495	6	CD737743	4023185 1	CD737743	521	22.2	52.9	495	6	CD737743	4023185 1
C 450	23.2	55.2	570	8	DN850828	DN850828	DN850828	522	22.2	52.9	570	8	DN850828	DN850828
C 451	23.2	55.2	573	5	BU263477	BU263477	BU263477	523	22.2	52.9	573	5	BU263477	BU263477
C 452	23.2	55.2	573	8	DN927840	DN927840	DN927840	524	22.2	52.9	573	8	DN927840	DN927840
C 453	23.2	55.2	597	8	DN850842	4146387 B	DN850842	525	22.2	52.9	597	8	DN850842	4146387 B
C 454	23.2	55.2	603	11	CR076370	CR076370	CR076370	526	22.2	52.9	603	11	CR076370	CR076370
C 455	23.2	55.2	610	5	BU131587	BU131587	BU131587	527	22.2	52.9	610	5	BU131587	BU131587
C 456	23.2	55.2	624	7	CN778522	CN778522	CN778522	528	22.2	52.9	624	7	CN778522	CN778522
C 457	23.2	55.2	636	5	BU263478	BU263478	BU263478	529	22.2	52.9	636	5	BU263478	BU263478
C 458	23.2	55.2	641	5	BU402357	BU402357	BU402357	530	22.2	52.9	641	5	BU402357	BU402357
C 459	23.2	55.2	645	5	BU271212	BU271212	BU271212	531	22.2	52.9	645	5	BU271212	BU271212
C 460	23.2	55.2	646	10	AG080732	Pan trogl	AG080732	532	22.2	52.9	646	10	AG080732	Pan trogl

ALIGNMENTS

RESULT 1

BQ762109

LOCUS

DEFINITION

BQ762109

VERSION

BQ762109

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

source

1. .367

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 145.136 Seconds
(without alignments)
514.397 Million cell updates/sec

Title: US-10-805-973-12

Perfect score: 42

Sequence: 1 cagctgtcctatgatcc.....acggtgtgttcaaggac 42

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

- Issued Patents NA.*
- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
 - 2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
 - 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
 - 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
 - 5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
 - 6: /cgn2_6/ptodata/1/ina/PCBUS COMB.seq.*
 - 7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
 - 8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
 - 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	34	81.0	182	3	US-10-258-842-10
2	34	81.0	182	3	US-10-258-842-12
3	34	81.0	188	3	US-10-258-842-13
4	34	81.0	208	3	US-10-258-842-9
5	34	81.0	208	3	US-10-258-842-11
6	34	81.0	528	3	US-10-258-842-16
7	34	81.0	1986	3	US-10-258-842-18
8	33	78.6	1969	2	US-07-737-851-1
9	33	78.6	1969	2	US-07-894-062-1
10	33	78.6	1969	3	US-09-086-562-1
11	32.4	77.1	1986	3	US-10-258-842-14
12	32.4	77.1	2279	3	US-10-258-842-4
13	32.4	77.1	2301	3	US-10-258-842-2
14	31.4	74.8	1969	2	US-07-737-851-2
15	31.4	74.8	1969	2	US-07-737-851-3
16	31.4	74.8	1969	2	US-07-894-062-2
17	31.4	74.8	1969	2	US-07-894-062-3
18	31.4	74.8	1969	3	US-09-086-562-2
19	31.4	74.8	1969	3	US-09-086-562-3
20	30.8	73.1	1986	3	US-10-258-842-24
21	28.2	67.1	2365	2	US-08-363-208-1
22	28.2	67.1	2365	3	US-09-137-478-1
23	25	59.5	2156	2	US-08-321-356-1
24	25	59.5	2156	2	US-08-321-356-3

c	25	23.6	56.2	68	3	US-09-193-612B-13	Sequence 13, Appl
c	26	23.6	56.2	68	3	US-09-579-784C-13	Sequence 13, Appl
c	27	23.6	56.2	1095	3	US-10-258-842-1	Sequence 1, Appl
c	28	23.6	56.2	1985	3	US-10-258-842-20	Sequence 20, Appl
c	29	21.8	51.9	2100	3	US-10-104-047-688	Sequence 688, App
c	30	21.4	51.0	162914	3	US-09-949-016-15578	Sequence 15578, A
c	31	21	50.0	601	3	US-09-949-016-153066	Sequence 153066,
c	32	21	50.0	29614	3	US-09-949-016-12390	Sequence 12390, A
c	33	21	50.0	46718	3	US-09-816-093-3	Sequence 3, Appl
c	34	21	50.0	166698	3	US-09-949-016-16038	Sequence 16038, A
c	35	20.8	49.5	4460	3	US-09-007-999-1	Sequence 1, Appl
c	36	20.8	49.5	4460	3	US-09-210-361-1	Sequence 1, Appl
c	37	20.8	49.5	4460	3	US-09-740-274-1	Sequence 1, Appl
c	38	20.8	49.5	4896	3	US-09-210-361-3	Sequence 3, Appl
c	39	20.8	49.5	4896	3	US-09-740-274-3	Sequence 3, Appl
c	40	20.6	49.0	601	3	US-09-949-016-153065	Sequence 153065,
c	41	20.6	49.0	13554	3	US-09-949-016-16130	Sequence 16130, A
c	42	20.6	49.0	17226	3	US-09-949-016-13806	Sequence 13806, A
c	43	20.4	48.6	26763	3	US-09-949-016-11984	Sequence 11984, A
c	44	20.4	48.6	26764	3	US-09-949-016-15566	Sequence 15566, A
c	45	20.4	48.6	75216	3	US-09-949-016-14061	Sequence 14061, A
c	46	20.2	48.1	68	3	US-09-193-612B-13	Sequence 13, Appl
c	47	20.2	48.1	68	3	US-09-579-784C-13	Sequence 13, Appl
c	48	20.2	48.1	1960	3	US-09-613-192A-90	Sequence 90, Appl
c	49	20.2	48.1	1960	3	US-09-169-789-90	Sequence 90, Appl
c	50	20.2	48.1	1961	2	US-08-975-316-56	Sequence 56, Appl
c	51	20.2	48.1	1961	3	US-09-615-192A-56	Sequence 56, Appl
c	52	20.2	48.1	1961	3	US-09-169-789-56	Sequence 56, Appl
c	53	20.2	48.1	2360	3	US-09-949-016-3907	Sequence 3907, Ap
c	54	20.2	48.1	2361	3	US-08-705-771-7	Sequence 7, Appl
c	55	20.2	48.1	2361	3	US-09-417-540-7	Sequence 7, Appl
c	56	20.2	48.1	2380	3	US-09-167-109-1	Sequence 1, Appl
c	57	20.2	48.1	2380	6	US-09-949-016-777	Sequence 777, App
c	58	20.2	48.1	2380	6	PCT-US95-16980-2	Sequence 2, Appl
c	59	20.2	48.1	26165	3	US-09-949-016-15649	Sequence 15649, A
c	60	20.2	48.1	26166	3	US-09-949-016-12519	Sequence 12519, A
c	61	20	47.6	394	3	US-09-621-376-15242	Sequence 15242, A
c	62	19.8	47.1	601	3	US-09-949-016-150179	Sequence 150179,
c	63	19.8	47.1	601	3	US-09-949-016-197705	Sequence 197705,
c	64	19.8	47.1	601	3	US-09-949-016-197706	Sequence 197706,
c	65	19.8	47.1	1146	3	US-09-107-433-520	Sequence 520, App
c	66	19.8	47.1	1203	3	US-09-583-110-2419	Sequence 2419, Ap
c	67	19.8	47.1	1320	2	US-08-695-412B-13	Sequence 13, Appl
c	68	19.8	47.1	1320	3	US-09-255-154D-13	Sequence 13, Appl
c	69	19.8	47.1	1320	3	US-10-213-452A-13	Sequence 13, Appl
c	70	19.8	47.1	21511	3	US-09-902-540-1201	Sequence 1201, Ap
c	71	19.8	47.1	85655	3	US-09-949-016-17345	Sequence 17345, A
c	72	19.8	47.1	90618	3	US-09-949-016-15964	Sequence 15964, A
c	73	19.6	46.7	2029	2	US-07-916-098A-43	Sequence 43, Appl
c	74	19.6	46.7	2560	2	US-07-916-098A-44	Sequence 44, Appl
c	75	19.4	46.2	589	3	US-09-533-559-2692	Sequence 2692, Ap
c	76	19.4	46.2	601	3	US-09-949-016-26772	Sequence 26772, A
c	77	19.4	46.2	601	3	US-09-949-016-150178	Sequence 150178,
c	78	19.4	46.2	601	3	US-09-949-016-183021	Sequence 183021,
c	79	19.4	46.2	888	3	US-09-270-767-12878	Sequence 12878, A
c	80	19.4	46.2	1602	3	US-09-360-197-9	Sequence 9, Appl
c	81	19.4	46.2	11577	3	US-09-949-016-14662	Sequence 14662, A
c	82	19.4	46.2	19818	3	US-09-949-016-12198	Sequence 12198, A
c	83	19.4	46.2	19819	3	US-09-949-016-16987	Sequence 16987, A
c	84	19.4	46.2	36759	3	US-09-949-016-12216	Sequence 12216, A
c	85	19.4	46.2	36760	3	US-09-949-016-14021	Sequence 14021, A
c	86	19.4	46.2	87752	3	US-09-949-016-16807	Sequence 16807, A
c	87	19.2	45.7	357	3	US-09-489-039A-6476	Sequence 6476, Ap
c	88	19.2	45.7	435	3	US-09-489-039A-6498	Sequence 6498, Ap
c	89	19.2	45.7	552	3	US-09-533-559-7004	Sequence 7004, Ap
c	90	19.2	45.7	1383	3	US-09-252-991A-11197	Sequence 11197, A
c	91	19.2	45.7	1749	3	US-09-252-991A-11055	Sequence 11055, A
c	92	19.2	45.7	6588	3	US-09-949-016-1076	Sequence 1076, Ap
c	93	19.2	45.7	106924	3	US-09-949-016-13834	Sequence 13834, A
c	94	19.2	45.7	109250	3	US-09-949-016-12530	Sequence 12530, A
c	95	19.2	45.7	109251	3	US-09-949-016-17321	Sequence 17321, A
c	96	19.2	45.7	133613	3	US-09-949-016-15624	Sequence 15624, A
c	97	19	45.2	526	3	US-09-702-705-1212	Sequence 1212, Ap

C 98	19	45.2	526	3	US-09-736-457-1212	Sequence 1212, Ap	C 171	18.8	44.8	111282	3	US-09-754-250-3	Sequence 3, Appli
C 99	19	45.2	526	3	US-09-614-124B-1212	Sequence 1212, Ap	C 172	18.8	44.8	111282	3	US-10-094-989-3	Sequence 3, Appli
C 100	19	45.2	526	3	US-09-671-325-1212	Sequence 1212, Ap	C 173	18.8	44.8	123293	3	US-09-949-016-14514	Sequence 14514, A
C 101	19	45.2	526	3	US-09-658-824-1212	Sequence 1212, Ap	C 174	18.8	44.8	123293	3	US-09-949-016-14515	Sequence 14515, A
C 102	19	45.2	526	3	US-10-017-754-1212	Sequence 1212, Ap	C 175	18.8	44.8	156894	3	US-09-949-016-12765	Sequence 12765, A
C 103	19	45.2	526	3	US-09-651-563-1212	Sequence 1212, Ap	C 176	18.8	44.8	156894	3	US-09-949-016-12766	Sequence 12766, A
C 104	19	45.2	526	3	US-09-709-705-1177	Sequence 1177, Ap	C 177	18.8	44.8	156895	3	US-09-949-016-16957	Sequence 16957, A
C 105	19	45.2	562	3	US-09-736-457-1177	Sequence 1177, Ap	C 178	18.8	44.8	156895	3	US-09-949-016-16958	Sequence 16958, A
C 106	19	45.2	562	3	US-09-614-124B-1177	Sequence 1177, Ap	C 179	18.8	44.8	156895	3	US-09-949-016-16959	Sequence 16959, A
C 107	19	45.2	562	3	US-09-671-325-1177	Sequence 1177, Ap	C 180	18.8	44.8	153112	3	US-09-949-016-14184	Sequence 14184, A
C 108	19	45.2	562	3	US-09-658-824-1177	Sequence 1177, Ap	C 181	18.8	44.8	450395	3	US-09-949-016-15473	Sequence 15473, A
C 109	19	45.2	562	3	US-10-017-754-1177	Sequence 1177, Ap	C 182	18.8	44.8	767677	3	US-09-949-016-12147	Sequence 12147, A
C 110	19	45.2	562	3	US-09-651-563-1177	Sequence 1177, Ap	C 183	18.8	44.8	767677	3	US-09-949-016-17361	Sequence 17361, A
C 111	19	45.2	700	3	US-09-735-271-430	Sequence 430, Appl	C 184	18.6	44.3	461	3	US-09-270-767-8520	Sequence 8520, Ap
C 112	19	45.2	919	2	US-08-503-226B-34	Sequence 34, Appl	C 185	18.6	44.3	461	3	US-09-270-767-23802	Sequence 23802, A
C 113	19	45.2	919	3	US-08-721-458B-34	Sequence 34, Appl	C 186	18.6	44.3	601	3	US-09-949-016-73038	Sequence 73038, A
C 114	19	45.2	981	2	US-09-489-039A-1467	Sequence 1467, Ap	C 187	18.6	44.3	601	3	US-09-949-016-73040	Sequence 73040, A
C 115	19	45.2	981	2	US-08-503-226B-33	Sequence 33, Appl	C 188	18.6	44.3	601	3	US-09-949-016-73041	Sequence 73041, A
C 116	19	45.2	981	3	US-08-721-458B-33	Sequence 33, Appl	C 189	18.6	44.3	625	3	US-09-328-111-444	Sequence 444, App
C 117	19	45.2	1292	3	US-09-021-655-977	Sequence 977, App	C 190	18.6	44.3	1040	3	US-10-324-316-21	Sequence 21, Appl
C 118	19	45.2	1300	3	US-09-345-236B-38	Sequence 38, Appl	C 191	18.6	44.3	1440	3	US-09-248-796A-2937	Sequence 2937, Ap
C 119	19	45.2	1300	3	US-09-345-236B-40	Sequence 40, Appl	C 192	18.6	44.3	1773	3	US-09-248-796A-391	Sequence 391, App
C 120	19	45.2	1300	3	US-09-345-236B-42	Sequence 42, Appl	C 193	18.6	44.3	1990	3	US-10-104-047-809	Sequence 809, App
C 121	19	45.2	2912	3	US-09-949-016-4834	Sequence 4834, Ap	C 194	18.6	44.3	2244	3	US-10-104-047-1672	Sequence 1672, Ap
C 122	19	45.2	10486	3	US-09-902-540-997	Sequence 997, App	C 195	18.6	44.3	2830	3	US-09-221-017B-730	Sequence 730, App
C 123	19	45.2	12681	3	US-09-949-016-16576	Sequence 16576, A	C 196	18.6	44.3	4131	2	US-08-309-512-3	Sequence 3, Appli
C 124	19	45.2	13158	2	US-08-687-080-105	Sequence 105, App	C 197	18.6	44.3	4131	6	PCT-US92-08756A-3	Sequence 3, Appli
C 125	19	45.2	96327	3	US-09-949-016-16541	Sequence 16541, A	C 198	18.6	44.3	6589	3	US-09-949-016-4912	Sequence 4912, Ap
C 126	19	45.2	99960	3	US-09-762-311-2	Sequence 2, Appli	C 199	18.6	44.3	6589	3	US-09-949-016-4913	Sequence 4913, Ap
C 127	19	45.2	129127	3	US-09-949-016-13481	Sequence 13481, A	C 200	18.6	44.3	6589	3	US-09-949-016-4914	Sequence 4914, Ap
C 128	19	45.2	162841	3	US-09-949-016-13733	Sequence 13733, A	C 201	18.6	44.3	6752	3	US-09-949-016-879	Sequence 879, App
C 129	19	45.2	167708	3	US-09-949-016-16423	Sequence 16423, A	C 202	18.6	44.3	7098	3	US-09-949-016-878	Sequence 878, App
C 130	18.8	44.8	71	3	US-08-952-793-236	Sequence 296, App	C 203	18.6	44.3	7578	3	US-09-949-016-339	Sequence 339, App
C 131	18.8	44.8	71	3	US-09-949-016-178209	Sequence 296, App	C 204	18.6	44.3	38559	3	US-09-949-016-13384	Sequence 13384, A
C 132	18.8	44.8	71	6	PCT-US96-09455A-296	Sequence 296, App	C 205	18.6	44.3	38559	3	US-09-949-016-13385	Sequence 13385, A
C 133	18.8	44.8	82	3	US-09-242-690A-3	Sequence 3, Appli	C 206	18.6	44.3	38559	3	US-09-949-016-13386	Sequence 13386, A
C 134	18.8	44.8	82	3	US-09-908-855-3	Sequence 3, Appli	C 207	18.6	44.3	74353	3	US-09-949-016-15336	Sequence 15336, A
C 135	18.8	44.8	184	3	US-09-242-690A-2	Sequence 2, Appli	C 208	18.6	44.3	138693	3	US-09-949-016-16724	Sequence 16724, A
C 136	18.8	44.8	184	3	US-09-908-855-2	Sequence 2, Appli	C 209	18.6	44.3	131088	3	US-09-949-016-16240	Sequence 16240, A
C 137	18.8	44.8	192	3	US-09-242-690A-1	Sequence 1, Appli	C 210	18.6	44.3	221545	3	US-09-949-016-13875	Sequence 13875, A
C 138	18.8	44.8	192	3	US-09-908-855-1	Sequence 1, Appli	C 211	18.6	44.3	253364	3	US-09-949-016-12656	Sequence 12656, A
C 139	18.8	44.8	601	3	US-09-949-016-80619	Sequence 80619, A	C 212	18.6	44.3	253364	3	US-09-949-016-13639	Sequence 13639, A
C 140	18.8	44.8	601	3	US-09-949-016-95146	Sequence 95146, A	C 213	18.6	44.3	264665	3	US-09-949-016-13747	Sequence 13747, A
C 141	18.8	44.8	601	3	US-09-949-016-95146	Sequence 95146, A	C 214	18.4	43.8	441	3	US-08-726-807B-53	Sequence 53, Appl
C 142	18.8	44.8	601	3	US-09-949-016-132286	Sequence 132286, A	C 215	18.4	43.8	509	3	US-09-621-976-18244	Sequence 18244, A
C 143	18.8	44.8	601	3	US-09-949-016-178209	Sequence 178209, A	C 216	18.4	43.8	551	3	US-10-081-817A-19	Sequence 19, Appl
C 144	18.8	44.8	601	3	US-09-949-016-181761	Sequence 181761, A	C 217	18.4	43.8	601	3	US-09-949-016-52902	Sequence 52902, A
C 145	18.8	44.8	601	3	US-09-949-016-181880	Sequence 181880, A	C 218	18.4	43.8	601	3	US-09-949-016-135851	Sequence 135851, A
C 146	18.8	44.8	601	3	US-09-949-016-181999	Sequence 181999, A	C 219	18.4	43.8	601	3	US-09-949-016-135968	Sequence 135968, A
C 147	18.8	44.8	601	3	US-09-949-016-198892	Sequence 198892, A	C 220	18.4	43.8	601	3	US-09-949-016-136085	Sequence 136085, A
C 148	18.8	44.8	678	3	US-09-248-796A-2217	Sequence 2217, Ap	C 221	18.4	43.8	601	3	US-09-949-002-5522	Sequence 5522, Ap
C 149	18.8	44.8	1113	3	US-09-242-690A-40	Sequence 40, Appl	C 222	18.4	43.8	618	3	US-09-270-767-12778	Sequence 12778, A
C 150	18.8	44.8	1113	3	US-09-908-855-40	Sequence 40, Appl	C 223	18.4	43.8	636	3	US-09-328-111-370	Sequence 370, App
C 151	18.8	44.8	1131	3	US-09-248-796A-784	Sequence 784, Appl	C 224	18.4	43.8	652	3	US-09-669-751-8	Sequence 8, Appli
C 152	18.8	44.8	1335	3	US-09-248-796A-3880	Sequence 3880, Ap	C 225	18.4	43.8	1173	3	US-09-248-796A-3485	Sequence 3485, Ap
C 153	18.8	44.8	1623	4	US-09-605-703B-617	Sequence 617, App	C 226	18.4	43.8	1233	3	US-10-272-490-23	Sequence 23, Appl
C 154	18.8	44.8	1623	4	US-09-605-703B-619	Sequence 619, App	C 227	18.4	43.8	1484	3	US-09-901-181-292	Sequence 292, App
C 155	18.8	44.8	1665	3	US-09-489-039A-3370	Sequence 3370, Ap	C 228	18.4	43.8	1484	3	US-09-997-333-292	Sequence 292, App
C 156	18.8	44.8	2086	2	US-08-557-128-5	Sequence 5, Appli	C 229	18.4	43.8	1484	3	US-09-992-598-292	Sequence 292, App
C 157	18.8	44.8	2086	3	US-09-242-690A-37	Sequence 37, Appl	C 230	18.4	43.8	1983	3	US-09-453-702B-36	Sequence 36, Appl
C 158	18.8	44.8	2086	3	US-09-908-855-37	Sequence 37, Appl	C 231	18.4	43.8	1983	3	US-10-114-170-36	Sequence 36, Appl
C 159	18.8	44.8	3540	3	US-09-540-236-1612	Sequence 1612, Ap	C 232	18.4	43.8	2652	3	US-09-543-681A-2775	Sequence 2775, Ap
C 160	18.8	44.8	8370	3	US-09-949-016-2337	Sequence 2337, Ap	C 233	18.4	43.8	2685	3	US-09-614-221A-477	Sequence 477, App
C 161	18.8	44.8	18698	3	US-09-949-016-14079	Sequence 14079, A	C 234	18.4	43.8	3152	3	US-09-399-081A-7	Sequence 7, Appli
C 162	18.8	44.8	35229	3	US-09-596-002-26	Sequence 26, Appl	C 235	18.4	43.8	3624	3	US-09-489-039A-4347	Sequence 4347, Ap
C 163	18.8	44.8	35229	3	US-09-949-016-15786	Sequence 15786, A	C 236	18.4	43.8	3624	2	US-08-354-618-1	Sequence 1, Appli
C 164	18.8	44.8	58782	3	US-09-949-016-16851	Sequence 16851, A	C 237	18.4	43.8	3829	2	US-09-045-632-48	Sequence 48, Appl
C 165	18.8	44.8	72455	3	US-09-949-016-13793	Sequence 13793, A	C 238	18.4	43.8	8580	3	US-09-949-016-17224	Sequence 17224, A
C 166	18.8	44.8	75216	3	US-09-949-016-14061	Sequence 14061, A	C 239	18.4	43.8	8580	3	US-09-949-016-15571	Sequence 15571, A
C 167	18.8	44.8	89843	3	US-09-949-016-17207	Sequence 17207, A	C 240	18.4	43.8	51049	3	US-09-949-016-11905	Sequence 11905, A
C 168	18.8	44.8	89843	3	US-09-949-016-12346	Sequence 12346, A	C 241	18.4	43.8	54161	3	US-09-949-016-12638	Sequence 12638, A
C 169	18.8	44.8	89844	3	US-09-949-016-13656	Sequence 13656, A	C 242	18.4	43.8	60917	3	US-09-949-016-16057	Sequence 16057, A
C 170	18.8	44.8	104475	3	US-09-949-016-12115	Sequence 12115, A	C 243	18.4	43.8	60917	3	US-09-949-016-16057	Sequence 16057, A

C 244	18.4	43.8	85369	3	US-09-949-016-12171	Sequence 12171, A	C 317	18	42.9	601	3	US-09-949-016-143760	Sequence 143760, A
C 245	18.4	43.8	115814	3	US-09-949-016-16205	Sequence 16205, A	C 318	18	42.9	601	3	US-09-949-016-154464	Sequence 154464, A
C 246	18.4	43.8	124480	3	US-09-949-016-15921	Sequence 15921, A	C 319	18	42.9	601	3	US-09-949-016-195481	Sequence 195481, A
C 247	18.4	43.8	131860	3	US-09-949-002-730	Sequence 730, Appl	C 320	18	42.9	601	3	US-09-949-016-195482	Sequence 195482, A
C 248	18.4	43.8	135476	3	US-09-949-016-12611	Sequence 12611, A	C 321	18	42.9	601	3	US-09-949-016-195484	Sequence 195484, A
C 249	18.4	43.8	135476	3	US-09-949-016-14413	Sequence 14413, A	C 322	18	42.9	601	3	US-09-949-016-195485	Sequence 195485, A
C 250	18.4	43.8	193555	3	US-09-949-016-15553	Sequence 15553, A	C 323	18	42.9	601	3	US-09-949-002-7733	Sequence 7733, Appl
C 251	18.4	43.8	193555	3	US-09-949-016-15554	Sequence 15554, A	C 324	18	42.9	1023	3	US-09-492-709A-102	Sequence 102, Appl
C 252	18.4	43.8	193555	3	US-09-949-016-15555	Sequence 15555, A	C 325	18	42.9	1048	3	US-09-602-767-28098	Sequence 28098, A
C 253	18.2	43.3	428	3	US-09-533-559-947	Sequence 947, Appl	C 326	18	42.9	1629	3	US-09-270-767-12344	Sequence 12344, A
C 254	18.2	43.3	495	3	US-09-020-956-94	Sequence 94, Appl	C 327	18	42.9	1647	3	US-09-270-767-11642	Sequence 11642, A
C 255	18.2	43.3	495	3	US-09-030-607-94	Sequence 94, Appl	C 328	18	42.9	1724	3	US-09-252-991A-10857	Sequence 10857, A
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ALIGNMENTS

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; APPLICANT: Mechanical College
; APPLICANT: Croughan, Timothy
; TITLE OF INVENTION: RESISTANCE TO ACETOHYDROXYACID SYNTHASE-INHIBITING HERBICIDES
; FILE REFERENCE: 98A9.2-PCT Croughan
; CURRENT APPLICATION NUMBER: US/10/258,842
; CURRENT FILING DATE: 2002-10-28
; PRIOR APPLICATION NUMBER: US 60/203,434
; PRIOR FILING DATE: 2000-05-10
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; SOFTWARE: PatentIn version 3.0; and WordPerfect version 8
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39	34	81.0	121	6	US-10-307-005-253	Sequence 253, Appli
40	34	81.0	121	6	US-10-307-005-254	Sequence 254, Appli
41	34	81.0	121	6	US-10-307-005-297	Sequence 297, Appli
42	34	81.0	121	6	US-10-307-005-298	Sequence 298, Appli
43	34	81.0	182	6	US-10-258-842-12	Sequence 10, Appli
44	34	81.0	182	6	US-10-258-842-12	Sequence 12, Appli
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47	34	81.0	188	6	US-10-258-842-13	Sequence 13, Appli
48	34	81.0	188	10	US-11-109-587-13	Sequence 13, Appli
49	34	81.0	208	6	US-10-258-842-9	Sequence 9, Appli
50	34	81.0	208	6	US-10-258-842-11	Sequence 11, Appli
51	34	81.0	208	10	US-11-109-587-9	Sequence 9, Appli
52	34	81.0	208	10	US-11-109-587-11	Sequence 11, Appli
53	34	81.0	528	6	US-10-258-842-16	Sequence 16, Appli
54	34	81.0	528	10	US-11-109-587-16	Sequence 16, Appli
55	34	81.0	1986	6	US-10-258-842-18	Sequence 18, Appli
56	34	81.0	1986	10	US-11-109-587-18	Sequence 18, Appli
57	33	78.6	121	6	US-10-307-005-81	Sequence 81, Appli
58	33	78.6	121	6	US-10-307-005-82	Sequence 82, Appli
59	33	78.6	121	6	US-10-307-005-265	Sequence 265, Appli
60	33	78.6	121	6	US-10-307-005-266	Sequence 266, Appli
61	32.4	77.1	1935	8	US-10-486-605-13	Sequence 13, Appli
62	32.4	77.1	1935	10	US-11-075-808-4	Sequence 4, Appli
63	32.4	77.1	1935	10	US-11-075-808-6	Sequence 6, Appli
64	32.4	77.1	1986	6	US-10-258-842-14	Sequence 14, Appli
65	32.4	77.1	1986	10	US-11-109-587-14	Sequence 14, Appli
66	32.4	77.1	2279	6	US-10-258-842-4	Sequence 4, Appli
67	32.4	77.1	2279	7	US-10-432-962-2	Sequence 2, Appli
68	32.4	77.1	2279	10	US-11-109-587-4	Sequence 4, Appli
69	32.4	77.1	2301	6	US-10-258-842-2	Sequence 2, Appli
70	32.4	77.1	2301	10	US-11-109-587-2	Sequence 2, Appli
71	32.4	77.1	2323	7	US-10-437-963-27343	Sequence 27343, A
72	32.4	77.1	2323	7	US-10-767-701-13073	Sequence 13073, A
73	31.4	74.8	1010	7	US-10-425-114-2446	Sequence 2446, Ap
74	31.4	74.8	1625	7	US-10-425-114-31333	Sequence 31333, A
75	31.4	74.8	1660	8	US-10-425-115-94167	Sequence 94167, A
76	31.4	74.8	2216	7	US-10-425-114-4552	Sequence 4552, Ap
77	31.4	74.8	3382	8	US-10-425-115-94171	Sequence 94171, A
78	30.8	73.3	1946	7	US-10-437-963-76497	Sequence 76497, A
79	30.8	73.3	1986	6	US-10-258-842-24	Sequence 24, Appli
80	30.8	73.3	1986	10	US-11-109-587-24	Sequence 24, Appli
81	29.8	71.0	121	6	US-10-307-005-49	Sequence 49, Appli
82	29.8	71.0	121	6	US-10-307-005-50	Sequence 50, Appli
83	29.8	71.0	121	6	US-10-307-005-125	Sequence 125, Appli
84	29.8	71.0	121	6	US-10-307-005-126	Sequence 126, Appli
85	29.8	71.0	121	6	US-10-307-005-193	Sequence 193, Appli
86	29.8	71.0	121	6	US-10-307-005-194	Sequence 194, Appli
87	29.8	71.0	121	6	US-10-307-005-281	Sequence 281, Appli
88	29.8	71.0	121	6	US-10-307-005-282	Sequence 282, Appli
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91	29.4	70.0	41	7	US-10-377-972C-9	Sequence 9, Appli
92	28.2	67.1	121	6	US-10-307-005-53	Sequence 53, Appli
93	28.2	67.1	121	6	US-10-307-005-54	Sequence 54, Appli
94	28.2	67.1	121	6	US-10-307-005-181	Sequence 181, Appli
95	28.2	67.1	121	6	US-10-307-005-182	Sequence 182, Appli
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c 99	28.2	67.1	121	6	US-10-307-005-222	Sequence 222, App	172	20.8	49.5	452	8	US-10-425-115-18594	Sequence 18594, A
c 100	28.2	67.1	121	6	US-10-307-005-237	Sequence 237, App	c 173	20.8	49.5	1141	7	US-10-424-599-36415	Sequence 36415, A
c 101	28.2	67.1	121	6	US-10-307-005-238	Sequence 238, App	174	20.8	49.5	2382	5	US-10-128-714-1026	Sequence 2026, Ap
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c 103	28.2	67.1	478	7	US-10-021-323-1881	Sequence 1881, Ap	176	20.8	49.5	2580	5	US-10-128-714-7026	Sequence 7026, Ap
c 104	28.2	67.1	551	7	US-10-021-323-1881	Sequence 1881, Ap	177	20.8	49.5	2819	5	US-10-128-714-6026	Sequence 6026, Ap
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c 106	28.2	67.1	2013	9	US-10-755-677B-7	Sequence 7, Appli	179	20.8	49.5	4460	3	US-09-740-274-1	Sequence 1, Appli
c 107	28.2	67.1	2077	7	US-10-695-546-3	Sequence 3, Appli	180	20.8	49.5	4819	5	US-10-128-714-5026	Sequence 5026, Ap
c 108	28.2	67.1	2083	7	US-10-695-089-1	Sequence 1, Appli	181	20.8	49.5	4896	3	US-09-740-274-3	Sequence 3, Appli
c 109	28.2	67.1	2087	7	US-10-695-546-1	Sequence 1, Appli	c 182	20.6	49.0	2784	7	US-10-424-599-40412	Sequence 40412, A
c 110	28.2	67.1	2364	5	US-10-057-6098-1	Sequence 1, Appli	183	20.6	49.0	580	4	US-09-925-065A-296778	Sequence 296778, A
c 111	26.6	63.3	121	6	US-10-307-005-165	Sequence 165, App	c 184	20.6	49.0	581	5	US-10-027-632-7761	Sequence 7761, Ap
c 112	26.6	63.3	121	6	US-10-307-005-166	Sequence 166, App	c 185	20.6	49.0	581	6	US-10-027-632-7762	Sequence 7762, Ap
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c 116	26.6	63.3	2003	7	US-10-695-546-2	Sequence 2, Appli	c 189	20.6	49.0	700	5	US-10-027-632-98710	Sequence 98710, A
c 117	26.6	63.3	2013	5	US-10-004-827-1	Sequence 1, Appli	c 190	20.6	49.0	700	5	US-10-027-632-98711	Sequence 98711, A
c 118	26.6	63.3	2013	5	US-10-004-827-2	Sequence 2, Appli	c 191	20.6	49.0	700	6	US-10-027-632-98710	Sequence 98710, A
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c 122	26.6	63.3	2116	7	US-10-695-089-2	Sequence 2, Appli	c 195	20.6	49.0	13211	9	US-10-915-740A-54	Sequence 54, Appli
c 123	26.6	63.3	2160	7	US-10-695-546-6	Sequence 6, Appli	c 196	20.6	49.0	23059	8	US-10-719-993-6878	Sequence 6878, Ap
c 124	26.6	63.3	2359	7	US-10-695-546-20	Sequence 20, Appli	c 197	20.6	49.0	33944	8	US-10-719-993-6878	Sequence 6878, Ap
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c 128	25	59.5	121	6	US-10-307-005-153	Sequence 153, App	c 201	20.4	48.6	585	6	US-10-027-632-219920	Sequence 219920, A
c 129	25	59.5	121	6	US-10-307-005-154	Sequence 154, App	c 202	20.4	48.6	585	6	US-10-027-632-219920	Sequence 219920, A
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c 132	25	59.5	2116	7	US-10-695-089-4	Sequence 4, Appli	c 205	20.4	48.6	656	7	US-10-767-701-7976	Sequence 7976, Ap
c 133	25	59.5	2702	3	US-09-732-618-42	Sequence 42, Appli	c 206	20.4	48.6	1368	8	US-10-425-115-97122	Sequence 97122, A
c 134	24.6	58.6	253	9	US-10-510-871-18	Sequence 18, Appli	c 207	20.4	48.6	1829	8	US-10-425-115-97128	Sequence 97128, A
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c 139	23.6	56.2	1985	10	US-11-109-587-20	Sequence 20, Appli	c 212	20.2	48.1	393	7	US-10-767-701-27770	Sequence 27770, A
c 140	23.4	55.7	340	8	US-10-425-115-105502	Sequence 105502, A	c 213	20.2	48.1	466	5	US-10-198-846-812	Sequence 812, App
c 141	23.4	55.7	455	7	US-10-424-599-1879	Sequence 1879, Ap	c 214	20.2	48.1	570	7	US-10-767-701-4735	Sequence 4735, Ap
c 142	23.4	55.7	2938	9	US-10-485-226A-1	Sequence 1, Appli	c 215	20.2	48.1	585	5	US-10-027-632-218980	Sequence 218980, A
c 143	23.4	55.7	2938	9	US-10-485-226A-3	Sequence 3, Appli	c 216	20.2	48.1	585	6	US-10-027-632-218980	Sequence 218980, A
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c 146	22	52.4	1383	7	US-10-424-599-39119	Sequence 39119, A	c 219	20.2	48.1	1961	6	US-10-174-693-56	Sequence 56, Appli
c 147	22	52.4	1727	3	US-09-931-457A-53	Sequence 53, Appli	c 220	20.2	48.1	2361	6	US-10-453-478-7	Sequence 7, Appli
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c 160	21.8	51.9	3979	7	US-10-776-311-90	Sequence 90, Appli	c 233	20.2	48.1	4367	6	US-10-085-117-338	Sequence 328, App
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C 268	19.8	47.1	556	7	US-10-425-114-21921	Sequence 21921, A	C 341	19.4	600	9	US-10-972-079-28243	Sequence 28243, A	
C 269	19.8	47.1	556	7	US-10-425-115-87436	Sequence 87436, A	C 342	19.4	600	9	US-10-972-079-28244	Sequence 28244, A	
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C 272	19.8	47.1	600	9	US-10-972-079-71066	Sequence 71066, A	C 345	19.4	648	4	US-09-925-065A-243353	Sequence 243353, A	
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C 276	19.8	47.1	650	7	US-10-425-114-18078	Sequence 18078, A	C 349	19.4	886	6	US-10-027-632-33736	Sequence 33736, A	
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C 279	19.8	47.1	689	7	US-10-425-114-28904	Sequence 28904, A	C 352	19.4	1408	4	US-09-925-065A-669273	Sequence 669273, A	
C 280	19.8	47.1	695	7	US-10-425-114-26887	Sequence 26887, A	C 353	19.4	1408	4	US-09-925-065A-669274	Sequence 669274, A	
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C 284	19.8	47.1	1146	9	US-10-617-320-520	Sequence 520, App	C 357	19.4	1807	7	US-10-425-114-33199	Sequence 33199, A	
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C 291	19.8	47.1	2608	7	US-10-437-963-60662	Sequence 60662, A	C 364	19.4	2886	10	US-11-097-143-17089	Sequence 17089, A	
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C 312	19.6	46.7	1269	7	US-10-425-114-7325	Sequence 7325, Ap	C 385	19.2	457	421	6	US-10-027-632-310893	Sequence 310893, A
C 313	19.6	46.7	1436	7	US-10-425-114-26436	Sequence 26436, A	C 386	19.2	457	483	6	US-10-767-701-22234	Sequence 22234, A
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(without alignments)
123.418 Million cell updates/sec

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	38.8	92.4	1788	11	US-11-152-903-3
7	32.4	77.1	1403	7	US-10-509-121-35
8	32.4	77.1	2279	7	US-10-509-121-37
9	32.4	77.1	2294	7	US-10-509-121-5
10	32.4	77.1	2294	7	US-10-509-121-7
11	32.4	77.1	2300	7	US-10-509-121-3
12	32.4	77.1	2301	7	US-10-509-121-1
13	32.4	77.1	2301	7	US-10-509-121-38
14	31.4	74.8	1404	7	US-10-509-121-36
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17	28.2	67.1	2024	11	US-11-079-122-10
18	26.6	63.3	2015	11	US-11-079-122-8
19	23	54.8	217623	11	US-11-112-908-33
20	22	52.4	1727	11	US-11-057-012-53
21	21.8	51.9	2100	8	US-11-072-512-688

22	21.8	51.9	3964	8	US-11-198-728-21	Sequence 21, Appl
23	21.8	51.9	3964	11	US-11-076-733-24	Sequence 24, Appl
c 24	21.8	51.9	8336	11	US-11-076-733-29	Sequence 29, Appl
c 25	21.8	51.9	8716	11	US-11-076-733-38	Sequence 38, Appl
c 26	21.8	51.9	8783	11	US-11-076-733-49	Sequence 43, Appl
c 27	21.8	51.9	8906	11	US-11-076-733-44	Sequence 29, Appl
c 28	21.8	51.9	8911	8	US-11-198-728-29	Sequence 32, Appl
c 29	21.8	51.9	8948	11	US-11-076-733-32	Sequence 20, Appl
c 30	21.8	51.9	8966	8	US-11-198-728-20	Sequence 87, Appl
c 31	21.8	51.9	8966	11	US-11-076-733-87	Sequence 93, Appl
c 32	21.8	51.9	9231	11	US-11-076-733-93	Sequence 26, Appl
c 33	21.8	51.9	9242	8	US-11-198-728-26	Sequence 67, Appl
c 34	21.8	51.9	9358	11	US-11-076-733-67	Sequence 54, Appl
c 35	21.8	51.9	9746	11	US-11-076-733-54	Sequence 32, Appl
c 36	21.8	51.9	9861	8	US-11-198-728-32	Sequence 35, Appl
c 37	21.8	51.9	9861	8	US-11-198-728-35	Sequence 99, Appl
c 38	21.8	51.9	9874	11	US-11-076-733-99	Sequence 78, Appl
c 39	21.8	51.9	9997	11	US-11-076-733-78	Sequence 54, Appl
c 40	21.8	51.9	189252	11	US-11-121-086-54	Sequence 64727, A
c 41	21.4	51.0	1218	7	US-10-750-185-64727	Sequence 27772, A
c 42	21.4	51.0	1218	7	US-10-750-623-64727	Sequence 27772, A
c 43	21	50.0	1289	7	US-10-750-185-27772	Sequence 27772, A
c 44	21	50.0	1289	7	US-10-750-623-27772	Sequence 99, Appl
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c 49	19.8	47.1	182303	11	US-11-121-086-45	Sequence 19, Appl
c 50	19.6	46.7	1479	11	US-11-043-542-19	Sequence 57, Appl
c 51	19.6	46.7	2028	6	US-10-493-909-57	Sequence 28, Appl
c 52	19.6	46.7	2551	6	US-10-988-207-28	Sequence 3, Appl
c 53	19.6	46.7	4694	11	US-11-241-034-3	Sequence 81, Appl
c 54	19.6	46.7	156544	11	US-11-121-086-81	Sequence 40498, A
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c 56	19.4	46.2	991	7	US-10-750-623-40498	Sequence 3836, A
c 57	19.4	46.2	2408	7	US-10-750-185-3836	Sequence 5102, Ap
c 58	19.4	46.2	2408	7	US-10-750-623-3836	Sequence 3981, A
c 59	19.4	46.2	26757	11	US-11-124-367A-5102	Sequence 254, App
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c 61	19.2	45.7	1256	7	US-10-750-185-33981	Sequence 5301, Ap
c 62	19.2	45.7	1256	7	US-10-750-623-33981	Sequence 1659, Ap
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c 64	19.2	45.7	179666	11	US-11-121-086-67	Sequence 57629, A
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c 66	19	45.2	579	11	US-11-128-061-5301	Sequence 2727, Ap
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c 72	18.8	44.8	1077	11	US-11-136-527-2727	Sequence 50513, A
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c 74	18.6	44.3	201	7	US-10-395-561-53325	Sequence 64884, A
c 75	18.6	44.3	1151	7	US-10-750-185-31217	Sequence 31054, A
c 76	18.6	44.3	1151	7	US-10-750-623-31217	Sequence 31054, A
c 77	18.6	44.3	1151	8	US-11-072-512-809	Sequence 13315, A
c 78	18.6	44.3	2236	7	US-10-750-185-53779	Sequence 1, Appl
c 79	18.6	44.3	2236	7	US-10-750-623-53779	Sequence 60, Appl
c 80	18.6	44.3	2244	8	US-11-072-512-1672	Sequence 34, Appl
c 81	18.6	44.3	2788	7	US-10-750-185-50513	Sequence 64689, A
c 82	18.6	44.3	2788	7	US-10-750-623-50513	Sequence 50086, A
c 83	18.6	44.3	2866	7	US-10-750-185-64884	Sequence 50086, A
c 84	18.6	44.3	2866	7	US-10-750-623-64884	Sequence 50086, A
c 85	18.6	44.3	3251	7	US-10-750-185-31054	Sequence 50086, A
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c 88	18.6	44.3	88421	11	US-11-205-109-1	Sequence 1, Appl
c 89	18.6	44.3	191091	11	US-11-121-086-60	Sequence 60, Appl
c 90	18.6	44.3	197781	11	US-11-112-908-34	Sequence 34, Appl
c 91	18.6	44.3	866	7	US-10-750-185-64889	Sequence 64689, A
c 92	18.4	43.8	866	7	US-10-750-623-64689	Sequence 50086, A
c 93	18.4	43.8	1830	7	US-10-750-185-50086	Sequence 50086, A
c 94	18.4	43.8	1830	7	US-10-750-623-50086	Sequence 50086, A

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C 96	18.4	43.8	1881	7	US-10-750-623-39253	Sequence 39253, A	169	17.8	42.4	600	7	US-10-750-185-4277	Sequence 4277, App
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C 99	18.4	43.8	2275	7	US-10-750-185-33856	Sequence 33856, A	172	17.8	42.4	1164	7	US-10-750-623-64208	Sequence 64208, A
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C 113	18.2	43.3	875	7	US-10-750-623-58719	Sequence 58719, A	C 186	17.8	42.4	2526	7	US-10-750-185-33449	Sequence 33449, A
C 114	18.2	43.3	923	7	US-10-750-185-37766	Sequence 37766, A	C 187	17.8	42.4	2526	7	US-10-750-623-33449	Sequence 33449, A
C 115	18.2	43.3	923	7	US-10-750-623-37766	Sequence 37766, A	C 188	17.8	42.4	3009	7	US-10-750-185-56238	Sequence 56238, A
C 116	18.2	43.3	1229	7	US-10-750-185-62830	Sequence 62830, A	C 189	17.8	42.4	3009	7	US-10-750-623-56238	Sequence 56238, A
C 117	18.2	43.3	1229	7	US-10-750-623-62830	Sequence 62830, A	C 190	17.8	42.4	3012	11	US-11-110-011-1	Sequence 1, Appl
C 118	18.2	43.3	1333	7	US-10-750-185-58726	Sequence 58726, A	C 191	17.8	42.4	4289	11	US-11-091-883-145	Sequence 145, App
C 119	18.2	43.3	1333	7	US-10-750-623-58726	Sequence 58726, A	C 192	17.8	42.4	5590	11	US-11-103-077-23	Sequence 23, Appl
C 120	18.2	43.3	1541	7	US-10-750-185-56262	Sequence 56262, A	C 193	17.8	42.4	5605	11	US-11-136-527-2448	Sequence 2448, App
C 121	18.2	43.3	1541	7	US-10-750-623-56262	Sequence 56262, A	C 194	17.8	42.4	5784	11	US-11-186-284-202	Sequence 202, App
C 122	18.2	43.3	1940	7	US-10-750-185-46032	Sequence 46032, A	C 195	17.8	42.4	5896	8	US-11-245-147-160	Sequence 160, App
C 123	18.2	43.3	1940	7	US-10-750-623-46032	Sequence 46032, A	C 196	17.8	42.4	5942	8	US-11-072-175-18	Sequence 18, Appl
C 124	18.2	43.3	2478	11	US-11-076-733-18	Sequence 18, Appl	C 197	17.8	42.4	52747	11	US-11-124-367A-5030	Sequence 5030, App
C 125	18.2	43.3	2650	8	US-11-072-512-1191	Sequence 1191, App	C 198	17.8	42.4	54985	11	US-11-124-367A-5047	Sequence 5047, App
C 126	18.2	43.3	4580	7	US-10-750-185-32198	Sequence 32198, A	C 199	17.8	42.4	67126	7	US-10-995-561-13342	Sequence 13342, A
C 127	18.2	43.3	4580	7	US-10-750-623-32198	Sequence 32198, A	C 200	17.8	42.4	120697	11	US-11-121-086-100	Sequence 48, Appl
C 128	18.2	43.3	27615	11	US-11-136-527-514	Sequence 514, App	C 201	17.8	42.4	124972	11	US-11-121-086-100	Sequence 100, Appl
C 129	18.2	43.3	109974	11	US-11-117-187-204	Sequence 204, App	C 202	17.8	42.4	127340	11	US-11-112-908-35	Sequence 35, Appl
C 130	18.2	43.3	168753	11	US-11-181-234-1	Sequence 1, Appl	C 203	17.8	42.4	137000	7	US-10-515-538-11	Sequence 11, Appl
C 131	18.2	43.3	191350	7	US-10-857-780-4	Sequence 4, Appl	C 204	17.8	42.4	165857	11	US-11-121-086-34	Sequence 34, Appl
C 132	18.2	43.3	192001	11	US-11-121-086-9	Sequence 9, Appl	C 205	17.8	42.4	178877	11	US-11-121-086-17	Sequence 17, Appl
C 133	18.2	43.3	192001	11	US-11-124-368A-11406	Sequence 11406, A	C 206	17.8	42.4	195998	7	US-10-995-561-13489	Sequence 13489, A
C 134	18.2	43.3	201	11	US-11-124-368A-11606	Sequence 11606, A	C 207	17.8	42.4	611587	11	US-11-117-187-209	Sequence 209, App
C 135	18.2	43.3	201	11	US-11-124-368A-11606	Sequence 11606, A	C 208	17.8	42.4	1082144	11	US-11-117-187-211	Sequence 211, App
C 136	18.2	43.3	1000	7	US-10-750-185-39516	Sequence 39516, A	C 209	17.6	41.9	468	7	US-10-467-657-111	Sequence 111, App
C 137	18.2	43.3	1000	7	US-10-750-623-39516	Sequence 39516, A	C 210	17.6	41.9	468	7	US-10-467-657-8549	Sequence 8549, App
C 138	18.2	43.3	1095	7	US-10-750-185-61000	Sequence 61000, A	C 211	17.6	41.9	652	7	US-10-750-185-32071	Sequence 32071, A
C 139	18.2	43.3	1095	7	US-10-750-623-61000	Sequence 61000, A	C 212	17.6	41.9	652	7	US-10-750-623-32071	Sequence 32071, A
C 140	18.2	43.3	1470	7	US-10-750-185-26248	Sequence 26248, A	C 213	17.6	41.9	673	7	US-10-750-185-49942	Sequence 49942, A
C 141	18.2	43.3	1470	7	US-10-750-623-26248	Sequence 26248, A	C 214	17.6	41.9	673	7	US-10-750-623-49942	Sequence 49942, A
C 142	18.2	43.3	1629	7	US-10-454-437-133	Sequence 133, App	C 215	17.6	41.9	767	11	US-11-201-322-5	Sequence 5, Appl
C 143	18.2	43.3	1775	11	US-11-136-527-123	Sequence 123, App	C 216	17.6	41.9	800	7	US-10-750-185-37477	Sequence 37477, A
C 144	18.2	43.3	1819	7	US-10-750-185-43983	Sequence 43983, A	C 217	17.6	41.9	800	7	US-10-750-623-37477	Sequence 37477, A
C 145	18.2	43.3	1819	7	US-10-750-623-43983	Sequence 43983, A	C 218	17.6	41.9	1067	7	US-10-750-185-28909	Sequence 28909, A
C 146	18.2	43.3	2112	8	US-11-072-512-1145	Sequence 1145, App	C 219	17.6	41.9	1067	7	US-10-750-623-28909	Sequence 28909, A
C 147	18.2	43.3	2520	11	US-11-072-512-904	Sequence 904, App	C 220	17.6	41.9	1573	7	US-10-750-185-28594	Sequence 28594, A
C 148	18.2	43.3	2520	11	US-11-076-431-1	Sequence 1, Appl	C 221	17.6	41.9	1573	7	US-10-750-623-28594	Sequence 28594, A
C 149	18.2	43.3	2520	11	US-11-076-431-3	Sequence 3, Appl	C 222	17.6	41.9	1705	7	US-10-510-386-83	Sequence 83, Appl
C 150	18.2	43.3	2520	11	US-11-076-431-5	Sequence 5, Appl	C 223	17.6	41.9	1725	7	US-10-467-657-1455	Sequence 1455, App
C 151	18.2	43.3	2520	11	US-11-076-431-7	Sequence 7, Appl	C 224	17.6	41.9	2054	7	US-10-750-185-54484	Sequence 54484, A
C 152	18.2	43.3	3463	11	US-11-005-216-1	Sequence 1, Appl	C 225	17.6	41.9	2054	7	US-10-750-623-54484	Sequence 54484, A
C 153	18.2	43.3	7619	11	US-11-069-834-53	Sequence 53, Appl	C 226	17.6	41.9	3115	8	US-11-136-527-3163	Sequence 3163, App
C 154	18.2	43.3	15351	11	US-11-124-368A-2938	Sequence 2938, App	C 227	17.6	41.9	3115	8	US-11-072-512-946	Sequence 946, App
C 155	18.2	43.3	15941	11	US-11-124-368A-2988	Sequence 2988, App	C 228	17.6	41.9	3570	7	US-10-750-185-41966	Sequence 41966, A
C 156	18.2	43.3	55763	7	US-10-972-766-1	Sequence 1, Appl	C 229	17.6	41.9	3570	7	US-10-750-623-41966	Sequence 41966, A
C 157	18.2	43.3	80345	11	US-11-124-367A-5022	Sequence 5022, App	C 230	17.6	41.9	3655	7	US-10-750-185-41869	Sequence 41869, A
C 158	18.2	43.3	100000	11	US-11-124-368A-2901	Sequence 2901, App	C 231	17.6	41.9	3655	7	US-10-750-623-41869	Sequence 41869, A
C 159	18.2	43.3	117431	7	US-10-995-561-13448	Sequence 13448, A	C 232	17.6	41.9	3936	7	US-10-750-185-32876	Sequence 32876, A
C 160	18.2	43.3	175673	11	US-11-121-086-55	Sequence 55, Appl	C 233	17.6	41.9	3936	7	US-10-750-623-32876	Sequence 32876, A
C 161	18.2	43.3	268685	7	US-10-933-025-22	Sequence 22, Appl	C 234	17.6	41.9	4147	11	US-11-136-527-2227	Sequence 2227, App
C 162	18.2	43.3	317676	7	US-10-995-561-13227	Sequence 13227, A	C 235	17.6	41.9	4675	7	US-10-750-185-45814	Sequence 45814, A
C 163	17.8	42.4	50	11	US-11-175-859-7214	Sequence 7214, App	C 236	17.6	41.9	4675	7	US-10-750-623-45814	Sequence 45814, A
C 164	17.8	42.4	201	7	US-10-995-561-16863	Sequence 16863, A	C 237	17.6	41.9	6432	11	US-11-043-889-3	Sequence 3, Appl
C 165	17.8	42.4	201	7	US-10-995-561-58984	Sequence 58984, A	C 238	17.6	41.9	6768	11	US-11-043-889-1	Sequence 1, Appl
C 166	17.8	42.4	201	7	US-10-995-561-80488	Sequence 80488, A	C 239	17.6	41.9	37907	7	US-10-995-561-13504	Sequence 13504, A
C 167	17.8	42.4	201	11	US-11-124-367A-10547	Sequence 10547, A	C 240	17.6	41.9	56448	7	US-10-995-561-13369	Sequence 13369, A

C 241	17.6	41.9	95050	7	US-10-857-780-7	Sequence 7, Appli	C 314	17.2	41.0	600	11	US-11-136-527-7311	Sequence 7311, Ap
C 242	17.6	41.9	155515	11	US-11-112-908-42	Sequence 42, Appl	C 315	17.2	41.0	663	7	US-10-750-185-29796	Sequence 29796, A
C 243	17.6	41.9	159660	11	US-11-112-908-43	Sequence 43, Appl	C 316	17.2	41.0	663	7	US-10-750-623-29796	Sequence 29796, A
C 244	17.6	41.9	168516	11	US-11-121-086-3	Sequence 3, Appli	C 317	17.2	41.0	821	7	US-10-750-185-40156	Sequence 40156, A
C 245	17.6	41.9	645179	7	US-10-995-561-13293	Sequence 1293, A	C 318	17.2	41.0	821	7	US-10-750-623-40156	Sequence 40156, A
C 246	17.6	41.9	1080000	7	US-10-928-446A-1	Sequence 1, Appli	C 319	17.2	41.0	948	7	US-10-750-185-58904	Sequence 58904, A
C 247	17.6	41.9	1080000	7	US-10-928-446A-181	Sequence 181, App	C 320	17.2	41.0	948	7	US-10-750-623-58904	Sequence 58904, A
C 248	17.6	41.9	1080000	7	US-10-928-446A-183	Sequence 183, App	C 321	17.2	41.0	954	7	US-10-821-234-536	Sequence 536, App
C 249	17.6	41.9	1080000	7	US-10-928-446A-185	Sequence 185, App	C 322	17.2	41.0	1057	7	US-10-750-185-40309	Sequence 40309, A
C 250	17.6	41.9	1080000	7	US-10-928-446A-187	Sequence 187, App	C 323	17.2	41.0	1057	7	US-10-750-623-40309	Sequence 40309, A
C 251	17.6	41.9	1080000	7	US-10-928-446A-189	Sequence 189, App	C 324	17.2	41.0	1114	7	US-10-750-185-45517	Sequence 45517, A
C 252	17.6	41.9	1080000	7	US-10-928-446A-191	Sequence 191, App	C 325	17.2	41.0	1114	7	US-10-750-623-45517	Sequence 45517, A
C 253	17.6	41.9	1080000	7	US-10-928-446A-193	Sequence 193, App	C 326	17.2	41.0	1172	7	US-10-750-185-51937	Sequence 51937, A
C 254	17.6	41.9	1080000	7	US-10-928-446A-195	Sequence 195, App	C 327	17.2	41.0	1172	7	US-10-750-623-51937	Sequence 51937, A
C 255	17.6	41.9	1080000	7	US-10-928-446A-197	Sequence 197, App	C 328	17.2	41.0	1645	7	US-10-750-185-26045	Sequence 26045, A
C 256	17.6	41.9	1080000	7	US-10-928-446A-199	Sequence 199, App	C 329	17.2	41.0	1645	7	US-10-750-623-26045	Sequence 26045, A
C 257	17.6	41.9	1080000	7	US-10-928-446A-201	Sequence 201, App	C 330	17.2	41.0	1683	11	US-11-136-527-3215	Sequence 3215, Ap
C 258	17.6	41.4	201	7	US-10-995-561-19126	Sequence 19126, A	C 331	17.2	41.0	1704	7	US-10-750-185-41032	Sequence 41032, A
C 259	17.4	41.4	201	11	US-11-124-367A-11461	Sequence 11461, A	C 332	17.2	41.0	1704	7	US-10-750-623-41032	Sequence 41032, A
C 260	17.4	41.4	417	11	US-11-102-026A-87	Sequence 87, Appl	C 333	17.2	41.0	1774	7	US-10-750-185-55662	Sequence 55662, A
C 261	17.4	41.4	749	7	US-10-750-185-53395	Sequence 53395, A	C 334	17.2	41.0	1774	7	US-10-750-623-55662	Sequence 55662, A
C 262	17.4	41.4	749	7	US-10-750-185-60299	Sequence 60299, A	C 335	17.2	41.0	2041	7	US-10-750-185-44972	Sequence 44972, A
C 263	17.4	41.4	749	7	US-10-750-623-53395	Sequence 53395, A	C 336	17.2	41.0	2041	7	US-10-750-623-44972	Sequence 44972, A
C 264	17.4	41.4	749	7	US-10-750-623-60299	Sequence 60299, A	C 337	17.2	41.0	2136	7	US-10-750-185-36876	Sequence 36876, A
C 265	17.4	41.4	1103	11	US-11-136-527-1946	Sequence 1946, Ap	C 338	17.2	41.0	2136	7	US-10-750-623-36876	Sequence 36876, A
C 266	17.4	41.4	1103	11	US-11-136-527-6042	Sequence 6042, Ap	C 339	17.2	41.0	2301	7	US-10-522-789-1	Sequence 1, Appli
C 267	17.4	41.4	1176	7	US-10-750-185-59409	Sequence 59409, A	C 340	17.2	41.0	2353	8	US-11-072-512-1382	Sequence 1382, Ap
C 268	17.4	41.4	1176	7	US-10-750-623-59409	Sequence 59409, A	C 341	17.2	41.0	2356	7	US-10-750-185-61747	Sequence 61747, A
C 269	17.4	41.4	1268	7	US-10-750-185-36307	Sequence 36307, A	C 342	17.2	41.0	2356	7	US-10-750-623-61747	Sequence 61747, A
C 270	17.4	41.4	1268	7	US-10-750-623-36307	Sequence 36307, A	C 343	17.2	41.0	2384	8	US-11-072-512-1882	Sequence 1882, Ap
C 271	17.4	41.4	1269	11	US-11-052-554A-690	Sequence 690, App	C 344	17.2	41.0	2387	8	US-11-072-175-41	Sequence 41, Appl
C 272	17.4	41.4	1287	11	US-11-052-554A-692	Sequence 692, App	C 345	17.2	41.0	2877	7	US-10-750-185-43765	Sequence 43765, A
C 273	17.4	41.4	1304	7	US-10-750-185-32861	Sequence 32861, A	C 346	17.2	41.0	2877	7	US-10-750-623-43765	Sequence 43765, A
C 274	17.4	41.4	1304	7	US-10-750-623-32861	Sequence 32861, A	C 347	17.2	41.0	3091	11	US-11-169-041-62	Sequence 62, Appl
C 275	17.4	41.4	1317	11	US-11-052-554A-689	Sequence 689, App	C 348	17.2	41.0	3147	11	US-11-136-527-3218	Sequence 3218, Ap
C 276	17.4	41.4	1342	11	US-11-136-527-1863	Sequence 1863, Ap	C 349	17.2	41.0	3217	7	US-10-995-561-496	Sequence 496, App
C 277	17.4	41.4	1342	11	US-11-136-527-5959	Sequence 5959, Ap	C 350	17.2	41.0	3344	7	US-10-995-561-495	Sequence 495, App
C 278	17.4	41.4	1491	7	US-10-750-185-56775	Sequence 56775, A	C 351	17.2	41.0	3411	7	US-10-750-185-62869	Sequence 62869, A
C 279	17.4	41.4	1491	7	US-10-750-623-56775	Sequence 56775, A	C 352	17.2	41.0	3411	7	US-10-750-623-62869	Sequence 62869, A
C 280	17.4	41.4	1617	8	US-11-072-512-1662	Sequence 1662, Ap	C 353	17.2	41.0	3460	11	US-11-091-883-190	Sequence 190, App
C 281	17.4	41.4	1835	7	US-10-750-185-33029	Sequence 33029, A	C 354	17.2	41.0	3858	7	US-10-995-561-96	Sequence 96, Appl
C 282	17.4	41.4	1835	7	US-10-750-623-33029	Sequence 33029, A	C 355	17.2	41.0	4335	7	US-10-995-561-95	Sequence 95, Appl
C 283	17.4	41.4	2028	11	US-11-136-527-2254	Sequence 2254, Ap	C 356	17.2	41.0	4335	11	US-11-136-527-4006	Sequence 4006, Ap
C 284	17.4	41.4	3148	7	US-10-750-185-42213	Sequence 42213, A	C 357	17.2	41.0	4409	11	US-11-136-527-2275	Sequence 2275, Ap
C 285	17.4	41.4	3148	7	US-10-750-623-42213	Sequence 42213, A	C 358	17.2	41.0	4515	7	US-10-750-185-51441	Sequence 51441, A
C 286	17.4	41.4	3723	11	US-11-136-527-2874	Sequence 2874, Ap	C 359	17.2	41.0	4515	7	US-10-750-623-51441	Sequence 51441, A
C 287	17.4	41.4	4305	11	US-11-080-991-67	Sequence 67, Appl	C 360	17.2	41.0	4524	11	US-11-075-185-61	Sequence 61, Appl
C 288	17.4	41.4	4339	6	US-10-912-971-7	Sequence 7, Appli	C 361	17.2	41.0	4633	7	US-10-995-561-97	Sequence 97, Appl
C 289	17.4	41.4	7251	11	US-11-136-527-3027	Sequence 3027, Ap	C 362	17.2	41.0	4723	7	US-10-995-561-99	Sequence 99, Appl
C 290	17.4	41.4	43445	11	US-11-124-020A-1	Sequence 1, Appli	C 363	17.2	41.0	4874	7	US-10-995-561-94	Sequence 94, Appl
C 291	17.4	41.4	43445	11	US-11-124-020A-2	Sequence 2, Appli	C 364	17.2	41.0	4955	11	US-11-136-527-2426	Sequence 2426, Ap
C 292	17.4	41.4	81201	7	US-10-995-561-13295	Sequence 13295, A	C 365	17.2	41.0	5053	7	US-10-995-561-93	Sequence 93, Appl
C 293	17.4	41.4	84502	11	US-11-124-367A-5057	Sequence 5057, Ap	C 366	17.2	41.0	5452	7	US-10-995-561-102	Sequence 102, App
C 294	17.4	41.4	138821	11	US-11-121-086-80	Sequence 80, Appl	C 367	17.2	41.0	5468	7	US-10-995-561-100	Sequence 100, App
C 295	17.4	41.4	142303	11	US-11-121-086-42	Sequence 42, Appl	C 368	17.2	41.0	5506	7	US-10-821-234-277	Sequence 277, App
C 296	17.4	41.4	142605	11	US-11-121-086-64	Sequence 64, Appl	C 369	17.2	41.0	5510	11	US-11-150-406-1	Sequence 1, Appli
C 297	17.4	41.4	162013	11	US-11-150-888-30	Sequence 30, Appl	C 370	17.2	41.0	5674	7	US-10-995-561-98	Sequence 98, Appl
C 298	17.4	41.4	175673	11	US-11-121-086-55	Sequence 55, Appl	C 371	17.2	41.0	5739	7	US-10-995-561-101	Sequence 101, App
C 299	17.4	41.4	189252	11	US-11-121-086-54	Sequence 54, Appl	C 372	17.2	41.0	5748	7	US-10-947-249-73	Sequence 73, Appl
C 300	17.4	41.4	190276	7	US-10-661-966-1	Sequence 1, Appli	C 373	17.2	41.0	5993	11	US-11-128-061-935	Sequence 935, App
C 301	17.4	41.4	191091	11	US-11-121-086-60	Sequence 60, Appl	C 374	17.2	41.0	5993	11	US-11-128-049-935	Sequence 935, App
C 302	17.4	41.4	240895	7	US-10-775-169-88	Sequence 88, Appl	C 375	17.2	41.0	19104	7	US-10-995-561-13425	Sequence 13425, A
C 303	17.4	41.4	241805	7	US-10-995-561-13215	Sequence 13215, A	C 376	17.2	41.0	24064	7	US-10-995-561-13478	Sequence 13478, A
C 304	17.4	41.4	319608	11	US-11-145-703-1	Sequence 1, Appli	C 377	17.2	41.0	38527	11	US-11-124-368A-2912	Sequence 2912, Ap
C 305	17.4	41.4	321019	7	US-10-995-561-13204	Sequence 13204, A	C 378	17.2	41.0	50959	11	US-11-117-187-210	Sequence 210, App
C 306	17.2	41.0	201	7	US-10-995-561-37113	Sequence 37113, A	C 379	17.2	41.0	55999	11	US-11-124-367A-5001	Sequence 5001, Ap
C 307	17.2	41.0	201	7	US-10-995-561-45113	Sequence 45113, A	C 380	17.2	41.0	57073	7	US-10-995-561-13275	Sequence 13275, A
C 308	17.2	41.0	201	7	US-10-995-561-71804	Sequence 71804, A	C 381	17.2	41.0	57536	11	US-11-124-367A-5053	Sequence 5053, Ap
C 309	17.2	41.0	201	7	US-10-995-561-78695	Sequence 78695, A	C 382	17.2	41.0	72600	11	US-11-117-187-206	Sequence 206, App
C 310	17.2	41.0	201	7	US-10-995-561-81818	Sequence 81818, A	C 383	17.2	41.0	83712	7	US-10-995-561-13366	Sequence 13366, A
C 311	17.2	41.0	201	11	US-11-124-367A-12015	Sequence 12015, A	C 384	17.2	41.0	96109	11	US-11-124-368A-2895	Sequence 2895, Ap
C 312	17.2	41.0	201	11	US-11-124-367A-14173	Sequence 14173, A	C 385	17.2	41.0	100000	11	US-11-124-367A-5036	Sequence 5036, Ap
C 313	17.2	41.0	201	11	US-11-124-367A-29166	Sequence 29166, A	C 386	17.2	41.0	105550	7	US-10-995-561-13235	Sequence 13235, A

